



2021-2022 Undergraduate Catalog

This catalog was prepared for the 2021-2022 academic year. The content in this catalog is for informational purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of this catalog will ordinarily be applied as stated, Kennesaw State University reserves the right to change any provision listed in this catalog, including but not limited to academic requirements for graduation, without notice to individual students.

Every effort will be made to keep students advised of any new information and/or changes in provisions listed in this catalog. The Schedule of Credit Courses is considered an extension of this catalog. Both the online catalog and the Schedule of Credit Courses (<http://www.kennesaw.edu/registrar>) are always current.

It is incumbent upon students to keep apprised of the graduation requirements for the degree they are pursuing.

Students have the responsibility to read this catalog, official announcements, notices posted on electronic listservs, and otherwise to be informed completely in regard to the programs of studies, credits, degree requirements, quality points and other facts relating to life at this university. KSU has established a free student account email system and will periodically email students with important messages. The university will use this email system exclusively to communicate with students.

In the event that an administrative hearing officer or a court of record determines that "publications" issued by the university create a contractual or quasi-contractual relationship with any person, the amount of damages recoverable by the parties shall be limited to the amount of consideration paid by the person for the privilege of admission, enrollment, continued enrollment or other service rendered by the institution to such person.

As used herein, the term "publications" (without limiting the generality of the normal meaning of the term) shall be deemed to include any and all written forms or other documents issued by the institution concerning applications for admission, enrollment or continued enrollment, waivers of liability, consents to medical treatment and any and all other written forms, documents, letters or other materials issued by the university in furtherance of its educational mission.

Purpose of the Catalog

The Kennesaw State University catalog contains important information and is the official source of the university's academic programs, courses, and policies. The catalog should be used as a guide in

conjunction with an academic advisor and DegreeWorks, in planning a course of study, and in meeting requirements for graduation.

Catalog Rights

Degree candidates are responsible for meeting the university requirements stated in the Kennesaw State University catalog to which they are officially assigned.

Students are initially assigned to the catalog for the academic year in which they are admitted to Kennesaw State University, provided the student attended at least one course in the academic year culminating in a record of enrollment on the student's academic transcript.

Students who interrupt their enrollment in the university for one year or longer (three consecutive terms including summer) must be readmitted to Kennesaw State University. Students will be officially reassigned to the catalog in effect when readmitted. Students lose any previous catalog rights and must meet all graduation requirements in effect at the time of readmission.

Students who change their major will be officially reassigned to the catalog in effect at the time of the change. They will lose any previous catalog rights and must meet all graduation requirements in effect at the time of the major change.

A student may petition to the faculty to retain an old catalog's graduation requirements. Please see the Registrar's Office for more information.

Disclaimer

This publication is not a contract. Kennesaw State University reserves the right to review and amend the content of the catalog with respect to course offerings, degree requirements, services provided, and other subjects addressed in the publication. Every effort has been made to ensure the accuracy of the information in this publication.

Students are expected to have read and remain familiar with the contents of the catalog. The information in this publication is provided solely for the convenience of the reader, and the university expressly disclaims any liability which may otherwise be incurred.

Admissions

Kennesaw State University welcomes applications from all qualified applicants regardless of race, sex, sexual orientation, age, religion, disability, or national origin. Admission to Kennesaw State is based on a number of factors depending upon an applicant's admission type and previous educational experience. The University's admission requirements have been developed in accordance with the rules and regulations of the KSU faculty and the Board of Regents of the University System of Georgia (BOR Policy Manual 4.2. and BOR Academic and Student Affairs Handbook 3.2). It is the responsibility of the applicant to review admission standards in advance to determine the likelihood of eligibility.

Applicant credentials must indicate a reasonable chance of successful completion of academic work at Kennesaw State University. Admission decisions are based on an applicant's previous record of academic preparation, academic performance, test scores, personal qualities, and experience.

It may become necessary to request additional testing for a more accurate assessment of an applicant's ability to succeed or for appropriate course placement. If an application file is not completed in time for such testing to be scheduled prior to registration, it may be necessary for an applicant to reapply for a future term.

If an applicant fails to enroll for the term of application, a new application and application processing fee must be submitted. After twelve months, all documents are purged and destroyed and the entire application process, including credentials, must be repeated. Approval for admission is valid only for the term specified at the time of acceptance and does not imply that approval will be granted for a term not specified. Prior to enrollment, any changes in an applicant's record due to completion of additional course work will necessitate a new review of the application file.

Right of Refusal

An applicant's file will be reviewed to ensure the applicant meets the above noted satisfactory academic performance, good character, and good conduct requirements if an applicant: (a) is on probation, suspension, expulsion, or any other type of academic warning at any previously attended institution, (b) is ineligible to enroll at any previously attended institution, (c) is currently charged with, or has been found guilty of, any violation of academic honesty, honor code, or conduct regulations of a previously attended institution, (d) left a previous institution while there were pending charges of any violation of academic honesty, honor code, or conduct regulations, (e) is currently charged with or has been found guilty of any violation of a federal, state, or municipal law, regulation or ordinance other than minor traffic violations, including offenses for which any type of first offender status has been granted, (f) has ever entered a plea of guilty, no contest, nolo contendere, or an Alford plea, or has otherwise accepted responsibility for the commission of a crime, (g) has received any type of discharge from military service other than honorable discharge. If, after a letter of acceptance has been issued, information comes to light that shows an applicant did not meet all admission requirements, or an applicant's application contained omissions or misrepresentations, the applicant's offer of admission will be revoked. If this information comes to light after the student has enrolled, the applicant's enrollment at Kennesaw State University will be terminated and earned credit may be revoked.

Prior to enrollment, any changes in a student's record will necessitate a new review of the application. Any omissions or misrepresentations on a student's application for admission will invalidate consideration by, acceptance to, and continuation at Kennesaw State University.

Admission Sequence

Admission to the University is primary and is a sequential prerequisite to any other program admission or departmental or athletic scholarship award.

Admission to Kennesaw State University as an undergraduate student does not automatically admit the individual to teacher education, nursing, business, engineering or other programs with internal admission criteria. Separate application processes are required for formal admission to such professional programs, and those admission decisions are often made after a prescribed amount of course work has been completed with satisfactory grades by the applicant. Details of program level admission requirements can be found in the section of this catalog that outlines degree program requirements.

Admission Procedures and Deadlines

Applications for admission and all required credentials (such as transcripts and test scores) must be submitted by established deadlines. Application deadlines are available on the KSU Office of Undergraduate Admissions website. All application deadlines are subject to change. Unless otherwise noted for a specific applicant type, the application file for admission is complete and ready for review when the Office of Undergraduate Admissions has received the following:

- A completed Undergraduate Application for Admission to Kennesaw State University submitted online with a nonrefundable application processing fee.

Course	Units	<i>Required Course Emphasis</i> For the most updated information and specific course requirements, see: http://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf
English	4	Literature (American, English, World) integrated with Grammar, Usage and Advanced Composition Skills
Mathematics	4	Algebra I/Coordinate Algebra, Geometry/Analytic Geometry, Algebra II/Advanced Algebra and a fourth unit of advanced math, or equivalent courses

Science	4	The 4 science units should include two courses with a laboratory component. Georgia public high school students should have at least one unit of biology, one unit of physical science or physics, one unit of chemistry, earth systems, environmental science, or an advanced placement course, and a 4th science
Social Science	3	Must include one unit focusing on U.S. Studies and one unit focusing on World Studies
Foreign Language, American Sign Language or Computer Science	2	The 2 units of the same foreign language must have an emphasis on speaking, listening, reading and writing. The 2 units of computer science must have a coding and programming emphasis.

- Official scores on all required college entrance tests (typically SAT or ACT; some applicants may also be required to have SAT II subject test scores, TOEFL scores, or placement test scores). All test scores must be sent from the testing service to KSU.
- Official high school and college transcripts mailed directly from those institutions, sent by an approved electronic service, or hand-delivered in a sealed institutional envelope to KSU.

The University reserves the right to withdraw admission, prior to or following enrollment, if the student has falsified application materials or otherwise demonstrated ineligibility as determined by the standards of the University or Board of Regents.

KSU does not discriminate on the basis of an individual's disability and is committed to providing students with full and equal enjoyment of services, facilities, and goods on campus as required by law.

Upon acceptance and prior to enrollment, any student with a documented disability or special need must notify the University of any required accommodations. Please contact the Office of Student Disability Services in the Student Development Center at the Kennesaw campus (470) 578-2666 or Building A on the Marietta campus (470) 578-7361.

Admission from High School

Applicants who have graduated from a high school meeting criteria of the University System of Georgia will be considered for admission based on the Required High School Curriculum, SAT/ACT scores, and the high school academic grade point average.

Required High School Curriculum

The Required High School Curriculum (RHSC) is a key factor considered in freshman admissions decisions. Completion of the University System of Georgia's RHSC requirements at a regionally

accredited or USG recognized high school is expected of most successful traditional freshman applicants.

The Office of Undergraduate Admissions recalculates the applicant's academic HSGPA using only acceptable academic units (RHSC) while excluding other high school courses such as physical education, vocational courses, ROTC, driver's education, etc. from the calculation. All repeated RHSC courses are calculated in the GPA. This GPA is calculated using a 4-point scale. Kennesaw State University welcomes students who have pursued accelerated high school courses and national standardization programs such as College Board Advanced Placement (AP), International Baccalaureate (IB), and College Level Examination Program (CLEP). For information about AP, IB and CLEP college credit, please visit the Transfer Services website.

Freshman Admission Standards

Freshmen are recent high school graduates who will be attending college for the first time. KSU's minimum requirements for admission as a freshman include the following:

- Graduation from one of the following:
 - A regionally accredited high school
 - A high school accredited by the Georgia Accreditation Commission
 - The Georgia Private School Accrediting Council
 - A high school accredited by an approved University System of Georgia agency
 - A public school under the authority of the State Department of Education
- Completion of the 17 required RHSC units
- High School academic GPA of at least a 2.5
- Minimum SAT or ACT scores as follow:

<i>SAT Taken March 2016 or Later</i>	<i>Minimum Score</i>
Evidence Based Reading and Writing Test Score	No lower than 500
Math Test Score	No lower than 490
<i>OR: ACT</i>	<i>Minimum Score</i>
ACT-English or ACT Reading	No lower than 18
ACT-Math	No lower than 18

Freshmen applicants may apply after their junior year in high school. After the receipt of all required documents (juniors should include their planned senior year subjects on their application) the Office of Undergraduate Admissions will notify applicants of their admission status. See admissions.kennesaw.edu for the most current admission requirements.

Admission is a competitive process and meeting minimum requirements may not guarantee admission.

Transfer students satisfying RHSC requirements elsewhere in the University System will be recognized as having met those requirements at Kennesaw State University upon admission.

Alternatives for Home School Applicants and Others

Kennesaw State University recognizes the choice and rights of a family to home educate their children; however, home-educated applicants bear the burden of demonstrating through proper documentation that they meet all the standard requirements for regular or limited freshman admission.

Home school applicants are defined as completing a high school program of study that is not from a regionally accredited or University System recognized high school; and those who have not satisfactorily completed the prescribed Carnegie units of the Required High School Curriculum (RHSC) in a manner acceptable to the University System.

Nevertheless, the University System of Georgia permits home educated applicants to be considered if they demonstrate sufficient Required High School Curriculum preparedness on appropriate standardized subject matter tests. The portfolio review approach for handling exceptions for home school students waives the high school graduation requirement, the academic HSGPA requirement, and the Carnegie unit requirements of the Required High School Curriculum. These waivers are in exchange for satisfactory performance on additional standardized testing or transferable college credit, which validates college preparedness in each area of the RHSC and demonstrates a satisfactory comprehensive high school academic experience. The applicant must meet or exceed the required minimum freshmen average scores on the SAT I or ACT of the prior fall semester freshman class at KSU.

Prospective home school applicants are encouraged to contact the Office of Undergraduate Admissions at least six months prior to the planned date of entry to obtain information and direction as to how to pursue these alternatives and exceptions for admission. Refer to the Home Educated Students website for the current accepted freshman average test scores and for information regarding portfolio procedures and standardized test options.

Honors Opportunities and Dual Enrollment

Honors Opportunities for First-Year Students

Incoming first-year students may join the University Honors Program if they have each of the following:

- A high school GPA of 3.5 or higher in the 17 units of the Required High School Courses as calculated by the Office of Undergraduate Admissions.
- An Honors application essay assessed to be satisfactory.*

Honors Opportunities for Currently Enrolled and Transfer Students

Currently enrolled students may join the University Honors Program if they have:

- Earned at least 15 credit hours and meet the same criteria as First-Year Students.
- Earned 15-45 credit hours and have an Adjusted GPA 3.5 or higher.
- Submitted an Honors application essay assessed to be satisfactory.*

Transfer students with 15 or fewer credit hours may join the University Honors Program by meeting the same criteria as first-year students. Those who are bringing in 15-45 credit hours must have an Adjusted GPA of 3.5 or better and an Honors application essay assessed to be satisfactory.*

**The University Honors Program application can be found at <https://honors.kennesaw.edu/prospective-students/eligibility.php>*

Dual Enrollment Program (DEP)

For the current deadline, admissions instructions, and additional program information, visit <https://dep.kennesaw.edu/>, or contact the Office of Undergraduate Admissions.

Rising high school juniors and seniors who are at least fifteen years of age at the time of enrollment are eligible for the Dual Enrollment Program if they earn each of the following:

- A cumulative grade point average of 3.0 or better in their core academic course work (not electives) as calculated by KSU and are on track to complete the Required High School Curriculum AND
- A composite score of 1050 with minimums of SAT Evidence Based Reading and Writing Test Score of 500 and Math Section Score of 490, or an ACT composite score minimum of 20 with subpart minimums of 18 English or reading and 18 math.

To be admitted to DEP, students must submit an online application, their Dual Enrollment new student forms, dual enrollment juniors or seniors under the age of 16 by the first day of class must submit the dual enrollment program acknowledgment form for minor (this can be found in the required document at <https://admissions.kennesaw.edu/admissions-requirements/dual-enrollment.php>), their official SAT or ACT score report, sent directly from the testing agency; and their high school transcript or homeschool portfolio. The application fee will be waived for Dual Enrollment Program applicants. Prior to registration, accepted students are required to attend a mandatory KSU orientation session. A minimum KSU GPA of 2.0 is required to continue in the program.

Prior Learning Assessment (PLA) Opportunities

Kennesaw State University welcomes students who have pursued accelerated academic course work while in high school or through recognized national standardized programs. Such programs include College Board's Advance Placement (AP), International Baccalaureate (IB), College Level Subject Examination Program (CLEP), Defense Activity for Nontraditional Educational Support (DANTES), and Foreign Language Achievement Testing Services (FLATS).

Students may receive college credit for certain courses based on scores received in the above tests. The criteria for credit awarded under these testing programs are available on the Transfer Evaluation Services website at transfer.kennesaw.edu.

PLA credit is not awarded based upon high school or college transcripts. Official score reports for AP, IB, CLEP, DSST and FLATS must be sent from the testing agency to Kennesaw State University to be considered for credit.

CLEP exams are administered nationally through Educational Testing Service (ETS) testing centers or through the University's Testing Center. See testing.kennesaw.edu for testing information. AP tests are given at many high schools throughout the country, and qualified applicants are advised to take these tests in the spring of their senior year in high school. CLEP, IB, DANTES, AP and FLATS credits do not count toward the KSU residency requirement or grade point average.

Students demonstrating satisfactory evidence of acquired knowledge from prior learning may receive course credit and hours by a departmental examination for advanced standing. Requests for institutional advanced standing examinations should be initiated with the academic department chair responsible for the course in question and must be approved by the Registrar.

Admission from Other Colleges

Transfer applicants for admission are students who have earned college credit elsewhere at regionally accredited collegiate institutions, and wish to transfer to KSU in order to continue their collegiate studies.

KSU's Office of the Registrar conducts transfer evaluations and accepts transfer credit only from such accredited institutions, only in courses comparable to KSU courses or in subject fields appropriate for KSU degrees, only when the grades earned are sufficient for the transfer courses to meet KSU degree requirements, and only when the GPA for all acceptable transfer courses is 2.0 or higher.

Transfer students must make arrangements with each college previously attended, whether credit was completed or not, to have a complete official transcript forwarded to the Office of Undergraduate Admissions at Kennesaw State University.

Official transcripts are required, regardless of the applicant's wishes concerning transfer credit or financial holds, and must be mailed directly from the sending institution, sent by an approved electronic service, or hand-delivered in a sealed college envelope to the Office of Undergraduate Admissions. Transcripts must be issued within one year of the application submission.

Transfer students' records will be evaluated in the same manner as Kennesaw State University resident students. Transfer students must have completed 30 semester hours (or 50 quarter hours) of transferable credit with a 2.0 cumulative GPA or above and be in good academic standing at their most recent college. The 30 semester hours must be from an accredited college or university and does not include PLA credit. Transfer applicants who have been academically dismissed from their previous institution may not enter Kennesaw State until they are fully eligible to return to their former institution, have attained good academic standing, and have a cumulative grade point average of at least 2.0.

Students transferring from another institution in the University System of Georgia must have satisfied any and all learning support requirements before being admitted to KSU. All admission application deadlines cited earlier apply to transfer applicants. All of the required documents cited earlier for a complete application file apply to transfer applicants with the following exceptions:

- High school transcripts are not required for applicants with 30 or more earned semester hours (or 50 quarter hours) of acceptable transfer credit. (However, all college and university transcripts are required)
- SAT or ACT scores are not required for applicants with 30 or more earned semester hours (or 50 quarter hours) of acceptable transfer credit

Transfer Freshman Admission Standards

Applicants with fewer than 30 semester hours of acceptable transfer credit (or 50 quarter hours) must meet the same admission requirements as recent high school graduates attending college for the first time. Also, an official transcript from each college previously attended indicating the applicant is in good academic standing must be sent directly from the sending institution to KSU's Office of Undergraduate Admissions.

Evaluation of Courses for Transfer Credit

Transfer credit is awarded in accordance with the policies of the University System of Georgia, accrediting agencies, and KSU. Transfer Evaluation Services functions as the liaison between acceptance to the university and academic advising by awarding transfer credit and applying relevant credit to the degree program. For further details regarding the transfer evaluation policy, visit the Transfer Evaluation Services website.

Eligibility for Military Transfer Credits

Military Transfer Credit Policy Practice

Military Transfer Credit may be awarded for undergraduate students accepted to Kennesaw State University Fall 2012 or later who have served in the U.S. Military and who desire to have their military experience considered for transfer credit. Students must request their official Joint Services Transcript (JST) be sent directly from JST to the Office of the Registrar, Graduation Audit and Transfer Evaluation Services (G.A.T.E.S.).

Special Admission Categories

In addition to traditional freshmen and transfer applicants, KSU also has a number of special admission categories.

Non-traditional Adult Learners-Freshmen Admission Standards

Adult learners with 30 semester hours (or 50 quarter hours) of transferable prior college credit may qualify for transfer status. Nontraditional adult learners are those students who meet the following:

- Have graduated from high school at least five years ago or whose high school class graduated at least five years ago.
- Hold a high school diploma from an accredited or approved secondary school or a GED certificate that satisfies the minimum requirements of the State of Georgia.
- Have earned fewer than 30 transferable semester hours (or 50 quarter hours) of college credit.
- Adhere to Board of Regents ACCUPLACER testing and remediation policy.

Applicants eligible for review in this category are exempt from the SAT/ACT and Required High School Curriculum requirements; however, non-traditional students applying in this category will be required to take the ACCUPLACER examination. Minimum scores are required for admission. As an alternative, non-traditional freshmen who have taken either test (ACT/SAT) within the past seven (7) years and scored SAT scores of at least 500 in both Verbal/Critical Reading and Mathematics, if taken prior to March 2016, or a Redesigned SAT score of 480 EBRW and 530 on the Math Section, or ACT scores of at least 21 on both English or Reading and Mathematics, may provide an official score report from the testing service to exempt ACCUPLACER testing. More information about testing can be found at testing.kennesaw.edu.

Support and academic services for adult learners are available through the Adult and Commuter Student Affairs website.

International Student Admission Standards

All International students should apply online to Kennesaw State University. Application processing and other United States Citizenship and Immigration Service (USCIS) procedures for applicants on a student visa (F1) or exchange visa (J1) will be processed by the Office of Admissions. Applications with other visa types including permanent residents will be processed by the Office of Admissions.

Kennesaw State University supports international education and the philosophy that cross-cultural understanding is vital for creating mutual respect, appreciation, and understanding of diversity. The presence of international students fosters cultural exchanges, which are beneficial to the student body and to the community at large.

International students may enroll in any program of study offered at Kennesaw State University. In addition, there are on-campus apartment complexes where international students can make arrangements for living accommodations. For information, visit the Housing and Residence Life website.

Students are responsible for their own transportation needs. There is limited county bus service to the campus.

KSU has no designated financial assistance for international students. All international applicants must pay nonresident fees unless the individual receives one of the nonresident fee waivers available to international students through the Office of Admissions. As per USCIS regulations, international applicants must present documented evidence that they have sufficient funds to meet their educational and living expenses.

All international students requesting admission to Kennesaw State University must submit the following credentials at least one semester prior to the semester of enrollment:

- A completed Undergraduate Application for Admission to Kennesaw State University submitted online with a nonrefundable application processing fee.
- Official or certified true copies of all high school and/or college/university records with a certified English translation. International students are required to have an official evaluation of credentials done by an outside agency at the student's expense. International applicants may contact NACES at www.naces.org/members.htm or AICE at <https://aice-eval.org/endorsed-members>. College transcripts should receive a course-by-course evaluation. Official transcripts and evaluations must be mailed directly from the sending institution, sent by an approved electronic service, or hand-delivered in a sealed college envelope. A KSU evaluation of credits will not occur until satisfactory documents are on file. It is up to the academic department as to which credits will actually apply to the degree program
- International students from non-English speaking countries must meet English proficiency requirements by meeting one of the following minimums:
 - TOEFL Internet Based Exam score of 79
 - TOEFL Paper Based Exam score of 550
 - IELTS score of 6.5
 - SAT Critical Reading Score of 450 if test was taken prior to March 2016
 - Redesigned SAT EBRW Test Score of 500 if taken March 2016 or later
 - ACT English or Reading Score of 18
 - EIKEN - Pre-1
 - MELAB (Michigan English Language Assessment Battery) score of 77
 - Cambridge CAE score of 177
 - Cambridge CPE score of 180
 - Pearson PTE Academic score of 58
 - Cambridge International Examinations IGCSE/O Level Exams with B or better
 - UK GCSE English Exam with B or better
 - UK GCE A-Level Exam with B or better
 - EdExcel Intl A-Levels or IGCSE English Exams with B or better
- Completion of the first English Composition college-level courses with a "C" or higher at an accredited American institution
- Successful completion of the High Advanced (Final) level hear at the Kennesaw State University Intensive English Program
- Official scores on the Scholastic Assessment Test (SAT) or American College Test (ACT)
- A valid Certificate of Immunization is required upon enrollment and must be submitted to the KSU Office of the Registrar. Requirements are listed on their website at immunizations.kennesaw.edu.

- All international exchange students and F1 Visa holders must purchase medical insurance made available through Kennesaw State University at the Division of Global Affairs (DGA).

To be eligible to register and remain in compliance with the Student Exchange and Visitor Information System (SEVIS), international students must have a current valid F1 visa status. An I-20 Form will be issued only upon the student's full acceptance into the University and supporting documentation such as Sworn affidavit of support from the applicant's financial sponsor. A letter from the sponsor's bank showing that funds (in U.S. dollars) are available for one year of support (for F1 applicants).

In order to maintain F-1 status with the United States Citizenship and Immigration Services (USCIS), international students with a student visa are required to be full-time students (minimum 12 semester hours) for spring and fall semesters, excluding summer term (unless it is the student's first term of enrollment at KSU). The University is required to notify the USCIS whenever a student's course load drops below 12 semester hours.

Upon arriving at Kennesaw State University, all international students are required to visit the International Student and Scholar Services Office and have their passports, I-20 ID, and Arrival-Departure Record copied and placed in their student file. This procedure facilitates the replacement of a lost Arrival-Departure Record and is required by the USCIS.

International transfer students from other educational institutions in the United States who are applying to Kennesaw State University are also required to have their passports, I-20 ID copy, and Arrival-Departure Record copied before enrollment.

Transient Students

Students who have been enrolled in another college or university and who expect to return to that college or university may apply for temporary (one term) admission and registration at Kennesaw State University as a transient student. Transients must have all documents filed by the deadline to be considered for admission. In fairness to its degree-seeking students and because of limitations on available space, KSU must give its continuing students higher priority for registration than transient students. Transient students have no guarantee that space will be available in the classes they seek and may only enroll in courses for which they qualify. Courses requiring program admission may not be available to transient students.

In addition to completing an online application for admission, which includes paying the non-refundable application fee, prospective transient students must present the following:

- A transient letter from the Registrar of their college (good for the semester of application only)
- The transient letter must grant permission for the applicant to attend KSU as a transient student.

It is the responsibility of the transient applicant to determine (with assistance from the home college) the course(s) that should be taken at Kennesaw State University.

Further information for Transient Students/Applicants:

- Enrollment as a transient student at KSU is limited to one semester.

- Transient students wishing to continue at KSU beyond the initial semester of entry must reapply for admission and present a new written permission from the previous institution's Registrar by the deadline for the term they wish to re-enroll.
- Transient students desiring to continue as transfer students must reapply for admission as a transfer student through the Office of Undergraduate Admissions and furnish all required documents and transcripts by the published deadline.
- For purpose of admission or readmission as a transient student, the summer term will be treated as a semester.
- Transient status is not intended as an alternative to meeting admission standards as a degree-seeking student. Credits earned at KSU will not be considered when a transient student applies to become a transfer student to Kennesaw State University.

Non-Degree Students

This non-degree category exists for those eligible students who have previously earned a baccalaureate degree from a regionally accredited institution and who wish to enroll in undergraduate courses for personal or professional reasons. Students applying for non-degree status must submit an online application for admission, which includes payment of the non-refundable application processing fee, and an official transcript from the institution that awarded the initial degree (meeting all deadlines). Non-degree seeking students can only take courses for which they are eligible and may not be able to enroll in courses requiring program admission.

Non-degree seeking students do not qualify for financial aid, do not receive a transfer evaluation of previous coursework and are not considered degree-seeking students.

Non-degree seeking students who wish to pursue another undergraduate degree at KSU must meet all pertinent transfer admission requirements and deadlines and apply for admission as a transfer student in order to change status from non-degree to degree seeking.

Audit Students

Audit applicants must have graduated from high school or hold a GED. To be admitted as an auditor, the individual must complete an online application for admission, which includes payment of the nonrefundable application-processing fee; and provide an official high school transcript reflecting date of graduation, an equivalency (GED) or official transcript from an accredited college or university showing credits earned. These requirements must be submitted prior to the published deadline for the term they wish to enroll.

Audit students attend classes and may participate in course assignments but are not graded and do not receive degree credit for completing the audited courses. Students are not permitted to receive retroactive credit at any future date for their participation in a course as an auditor nor change from an audit to a credit status while enrolled in a course. In determining the student's load for fee computation, audited courses are counted at full value. Students wishing to change their classification from an auditor to a degree-seeking student must reapply for admission for a future term in the appropriate category and meet all pertinent requirements and deadlines.

Audited courses do not qualify for educational benefits or financial assistance under the social security laws, veterans, and other federal and state programs.

Online Learners

Kennesaw State University offers fully-online degree programs, certificate programs, hybrid online programs and a large selection of courses in online and mixed-model versions. Designed and taught by KSU faculty, distance learning at KSU offers high quality degree options with distance learning convenience and flexibility. For more information, visit learnonline.kennesaw.edu/.

Students 62 Years of Age or Older

Citizens of the State of Georgia who are 62 years of age or older may attend Kennesaw State University without payment of fees (except supplies, laboratory fees, special course or major fees, premium program fees, online tuition, and the parking permit fee).

To be eligible for participation under this amendment to the Georgia Constitution, such persons:

- Must meet all University System and Kennesaw State University admission requirements and deadlines to include completing an online application for admission, payment of the nonrefundable application-processing fee and have all documents filed
- Must meet all University System, Kennesaw State University, and legislated degree requirements if they are degree-seeking students
- Must present a birth certificate or driver's license along with the Application for Senior Citizen Waiver to the Bursar's Office prior to registration

Certificate Seeking Students

Certificate applicants must meet admission requirements for their student type.

Immunizations

Prior to registration, a valid Certificate of Immunization is required to be on file in the KSU Office of the Registrar. The immunization form may be found at immunizations.kennesaw.edu. Mail immunization forms to the KSU Immunization Services, Office of the Registrar, 585 Cobb Avenue NW, MD 0116, Kennesaw, GA 30144 or fax to 470-578-9097 or email to: immunizationsvc@kennesaw.edu.

Readmission

Former Kennesaw State University students that must apply for readmission include those who have not been enrolled at KSU for three or more consecutive semesters, last attended as a transient student or are returning after academic dismissal or learning support exclusion. As well, students who wish to change their status (such as transient to degree seeking, degree seeking to non-degree) must

apply for readmission. The application and all required credentials to support the applicant's admission type must be submitted by the application deadline for the term they wish to readmit.

Transfer credit for readmission students will be re-evaluated in accordance with the transfer evaluation policies in effect for the term a student is readmitted to KSU.

After taking or attempting an undergraduate course for the second time, students will not be allowed to re-enroll in that class without the permission of the department chair or his/her designee. It is the sole discretion of the department chair/designee to decide if and when a student will be allowed to enroll in a class that they have taken/attempted twice. There is no obligation on the part of the chair to allow a student to enroll in a course after the student's second attempt to take the course.

This limitation is in place regardless of previous grades including grades of "W" or "WF". The standing exception to this policy is for courses described in the KSU undergraduate catalog as being repeatable for credit. Students who wish to participate in the Academic Fresh Start program must contact the Office of the Registrar to complete the Academic Fresh Start Request Form. The request must be submitted within three semesters after re-enrollment or one calendar year, whichever comes first. A student can be granted Academic Fresh Start status only one time. Once granted, the petition for Academic Fresh Start cannot be rescinded.

Lawful Presence Verification

The Board of Regents (BOR) of the University System of Georgia has implemented a policy requiring University System Institutions to verify the lawful presence in the United States of all admitted students entering Kennesaw State University who are seeking in-state (resident) tuition status. BOR Policy 4.3.4 states: "University System institution shall verify the lawful presence in the United States of every successfully admitted person applying for resident tuition status (in-state tuition)."

For information regarding this requirement and how it can be satisfied, visit <https://lpv.kennesaw.edu/>.

Resources

<i>SAT I and II Tests</i>	<i>ACT Tests</i>
College Entrance Examination Board Box 6200 Princeton, NJ 08541 or register online at www.collegeboard.com KSU's Institutional Code: 5359	American College Testing Program P.O. Box 414 Iowa City, Iowa 52243 or register online at www.act.org KSU's Institutional Code: 0833
<i>TOEFL Exams</i>	<i>Send KSU Dual Enrollment Forms to:</i>

Educational Testing Services P.O. Box 6151 Princeton, NJ 08541, USA or www.toefl.org KSU's Institutional Code: 5359	KSU Office of Undergraduate Admissions 3391 Town Point Drive, MD 9111 Kennesaw, GA 30144-5591 admissions.kennesaw.edu/
Office of Undergraduate Admissions	ACCUPLACER Exam
KSU Office of Undergraduate Admissions 3391 Town Point Drive, MD 9111 Kennesaw, GA 30144-5591 admissions.kennesaw.edu/ Phone: 470.578.6300	Kennesaw State University Testing Services testing.kennesaw.edu Kennesaw campus: 470-578-4800; Marietta campus: 678-915-3082

Appeals

Applicants who do not meet freshman admission standards are encouraged to try to improve in the area(s) they do not meet requirements prior to high school graduation by retaking the SAT or ACT and/or improving their grade point average. Their application will be reviewed again based on final grades and new test scores. As an Alternative Pathway to Enrollment, applicants who are not eligible to begin as a freshman are encouraged to attend another college and reapply to KSU in the future as a transfer student once they have completed all Required High School Courses and Learning Support requirements, achieved at least 30 transferable semester hours (or 50 transferable quarter hours) at appropriately accredited college(s), and obtained a cumulative grade point average of 2.0 on all coursework attempted.

Applicants are invited to discuss their alternatives with an admissions counselor. An admissions counselor can advise applicants on an alternative pathway to enrollment as a transfer student, as well as the feasibility for success as a candidate for an admission appeal.

KSU Admissions Online at admissions.kennesaw.edu

From the admissions website, students can submit an application or check the status of their application and take advantage of the online services including:

- Schedule a campus visit
- Review standards for admission to KSU
- Review FAQs
- Learn about the admissions office

- Check the status of an application
- Check on application deadlines for a particular term
- Check on current tuition costs
- Request information about KSU

It is the responsibility of the student to review admission standards in advance to determine the likelihood of eligibility.

Tuition, Expenses, & Financial Aid

Tuition and Fee Payment

Expenses include in-state tuition, out-of-state tuition, mandatory student fees, and other special fees. All fees are due and payable at the time of registration, and registration is not complete until all fees have been paid.

Cash, checks, and money orders drawn on U.S. banks and payable in U.S. dollars are accepted. Electronic checks and credit cards will only be accepted on the web. Payment by credit card will incur an additional convenience fee charged by a third party credit card processor.

The University reserves and intends to exercise the right to withhold copies of transcripts and other student education records and/or to withdraw students who have unpaid or past due fee balances.

Students are required to pay in-state tuition and, when applicable, out-of-state tuition, for enrollment in all courses even if no credit is earned.

Per Board of Regents' policy, all tuition, fees, or other charges are subject to change at the end of any academic term. (BOR Policy 10.2.3)

Collection of outstanding balances

Kennesaw State University reserves the right to use a collection agency and to pursue legal action in order to collect the balance of any debt. Once an account is placed in collection or legal action is pursued by the collection agency, the student will be liable for all collection fees, which may be based on a percentage at a maximum of 15 percent of the delinquent account in addition to the amount of the original debt. At this point, the student will no longer be able to pay the University directly, and any communication or correspondence with the University about such debt must be directed through the collection agency.

Tuition Rates

Per Board of Regents' policy, tuition rates for all University System of Georgia (USG) institutions and programs shall be approved annually no later than the May meeting by the Board of Regents to become effective the following fall semester. Exceptions to this requirement may be granted upon recommendation of the Chancellor and approval by the Board of Regents. (BOR 7.3.1.1). Approved tuition and fee schedules will be made available upon receipt by Kennesaw State University. All tuition, fees or other charges are subject to change at the end of any academic term without prior notice to comply with federal, state and institutional policies.(BOR 10.2.3)

Tuition charges can vary based on state residency status and degree program. Residency status is determined by the Office of Admission at the time of acceptance in accordance with the regulations of the Board of Regents of the University System of Georgia.

See <http://fiscalservices.kennesaw.edu/bursar/tuition-fees/tuition-fees.php> for the latest information on tuition and fees.

Mandatory Student Health Insurance

A mandatory insurance plan is in effect for the following student categories:

- All graduate students receiving a full tuition waiver as a result of a GRA, GTA, or GSA assistantship award.
- All undergraduate, graduate, and ESL international students holding F or J visas.
- All undergraduate and graduate students enrolled in programs that require proof of health insurance.
- All graduate students receiving fellowships that fully fund their tuition.
- International Scholars holding J visa status.

A waiver of the health insurance fee may be applied for directly with the insurer. For insurance plan and waiver information go to <http://fiscalservices.kennesaw.edu/bursar/tuition-fees/health-insurance.php>. This plan is optional for all other students.

Expenses and Fees

Additional Lab, Specialized Course Fees: These fees are charged where applicable.

Applied Music Fee: The registration fee for one 50-minute private lesson per week is \$150 per semester. Applied music fees are nonrefundable and may not be transferred to subsequent semesters.

Laboratory Breakage: Students in the laboratory sciences are required to reimburse the university on a cost basis for broken glassware and equipment.

Late Registration Fee: A \$50 late registration payment fee will be assessed to students enrolling for the first time during drop/add. This includes students who failed to pay by the final payment deadline and were dropped for nonpayment.

Nursing Expenses: Mandatory uniforms cost \$200-\$250. A stethoscope, watch, and other supplies costs approximately \$200-\$250. The initial testing fee is \$400. Clinical agency credentialing costs approximately \$400. Possible costs of \$100 - \$200 for immunizations and other healthcare costs depending on health history and insurance coverage. Mandatory health insurance is charged to nursing students who do not have proper coverage.

Textbooks and Supplies: Textbooks and supplies are available in the university bookstore. Although the exact cost of books and supplies will vary with courses, an estimate is \$750 per semester.

Housing Fees

Kennesaw State University offers several on-campus housing options. All of our housing communities provide fully furnished rooms, individual contracts, all-inclusive rates, and high-speed Wi-Fi. All communities are in close proximity of anywhere you want to go on campus. Housing and residence life personnel offer support 24/7 and strive to make the on-campus housing experience memorable and meaningful. For more specific information, please go to <http://ksuhousing.kennesaw.edu/>.

Other Administrative Fees

Advanced Standing Examination Fee: A fee of \$60 is required for each institutional advanced standing examination attempted; no course may be attempted more than once.

Diploma Fee: A diploma fee of \$50 is required of all degree candidates and is payable at the time a petition to graduate is presented to the Registrar. The fee is nontransferable and nonrefundable. It entitles the student to one diploma.

FAX Fee: There is a priority fee of \$10.00 per document for electronic transmission (FAX) of unofficial transcripts or certification forms/letters.

Penalty Fee For Returned Check: A penalty fee of \$25 will be assessed for each electronic or paper check returned by the bank.

Withdrawal/Refund of Student Fees

To withdraw from one or more classes, students must withdraw online through Owl Express.

Students dropping from classes before the end of late registration and drop/add are entitled to a 100% refund. After that date, students will be granted a percentage refund of tuition and fees only if they withdraw completely from the university. Lab, specialized course/major, and insurance fees are not refundable if withdrawal from course(s) is made after the end of late registration and drop/add.

KSU Institutional Refund Policy

The refund amount for students withdrawing from the institution shall be based on a pro rata percentage determined by dividing the number of calendar days in the semester that the student completed by the total calendar days in the semester. The total calendar days in a semester includes weekends, but excludes scheduled breaks of five or more days and days that a student was on an approved leave of absence. The unearned portion will be refunded up to the point in time that the amount earned equals 60%. Students who withdraw from the institution when the calculated percentage of completion is greater than 60% are not entitled to a refund of any portion of institutional charges. (BOR 7.3.5.1)

Students will receive refunds only when they withdraw from ALL of their classes and only by the schedule outlined in the University System refund policy.

Students enrolled summer term who withdraw from second-session courses on the first day of those classes will receive a 100% refund. After the first day, no refunds will be processed.

Students should refer to the Registrar Academic Calendar webpage for specific dates of each refund period.

Students who do not formally withdraw, those suspended for disciplinary reasons, and those who leave the university when disciplinary action is pending are not eligible for a refund on any portion of any fee.

A refund of nonresident fees, matriculation fees, and other mandatory fees will be made in the event of the death of a student at any time during an academic semester/summer term. (BOR 7.3.5.2)

Refunds will be disbursed by the university's internet bank partner. Students may use their Personal Code number received from Card Services to select a refund payment method: electronic fund transfer or paper check at

<https://www.refundselection.com/refundselection/#/welcome/continue>. Details are available at http://cardservices.kennesaw.edu/docs/Brochure_2016_O_88914_55441.pdf.

Registration Fee Waiver for Senior Citizens

Pursuant to the provisions of an amendment to the Georgia Constitution, legal residents of Georgia who are 62 years of age or older on the first day of class for a term may have their standard tuition and fees waived (with the exception of supplies, laboratory fees, special course or major fees, premium program fees, online tuition and the parking permit fee). A driver's license or birth certificate together with the Application for Senior Citizen Waiver must be presented to the Bursar's Office. Details are available at <http://fiscalservices.kennesaw.edu/bursar/tuition-fees/billing.php>.

Military Service Refunds & Re-enrollment

- Subject to institutional policies, full refunds of tuition and mandatory fees and pro rata refunds of electives fees are hereby authorized for students who are:
 - Military reservists (including members of the National Guard) and who receive emergency orders to active duty after having enrolled in a USG institution and paid tuition and fees;
 - Commissioned officers of the United States Public Health Service Commissioned Corps (PHSCC) who receive deployment orders in response to a public health crisis or national emergency after having enrolled in a USG institution and paid tuition and fees;
 - Active duty military personnel and who receive an emergency reassignment after having enrolled in a USG institution and paid tuition and fees;
 - Those who are otherwise unusually and detrimentally affected by the emergency activation of members of the reserve components or the emergency deployment of active duty personnel of the Armed Forces of the United States and who demonstrate a need for exceptional equitable relief (BOR 7.3.5.3);
 - Students who are members of the Georgia National Guard or other reserve components of the U.S. Armed Forces who are re-enrolling after having been summoned to active duty in an emergency situation are to be accorded special consideration regarding class registration, financial aid processing, payment of fees, etc., so as to expedite their re-enrollment;
 - Military personnel on active duty in the U.S. Armed Forces who, before the end of their present station assignment, receive emergency orders for a temporary or permanent change of duty location who later wish to resume their education are to be accorded special consideration regarding class registration, financial aid processing, payment of fees, etc., so as to expedite their re-enrollment.

Tuition and fees awarded by scholarship or grant from an agency or authority of the State of Georgia on behalf of a student receiving a refund under this policy shall be reimbursed to such agency or authority.

Tuition Classification

A student's tuition classification is not changed automatically. Per Board of Regents of the University System of Georgia tuition classification policy, the responsibility for registering for classes under the proper tuition classification is that of the student. If there is any question about the student's right to in-state tuition classification, it is the student's obligation, prior to or at the time of matriculation, to clarify their tuition classification status with the tuition classification officer of the institution.

A student's initial tuition classification is first determined by the information submitted on the application for admission. Students who wish to appeal their tuition classification should discuss their eligibility with the Tuition Classification Officer in the Office of the Registrar.

A student enrolled as an out-of-state student who would like to qualify as an in-state student must fill out a Petition to Change Tuition Classification form. Information regarding this process and the form can be obtained on-line at <https://enrollmentservices.kennesaw.edu/tuitionclassification/> or by contacting the Tuition Classification Officer for Kennesaw State University at tuitionclassification@kennesaw.edu. To ensure the student's tuition classification is corrected before payment deadline the student should submit the Petition to Change Tuition Classification at least two weeks prior to final payment deadline. Otherwise, students have 30 days from the start date of the term in which they are requesting in-state tuition to submit documentation for that term. If the petition is granted, reclassification WILL NOT be retroactive to prior semesters including terms a part of a closed fiscal year. If a petition is denied the student may appeal the decision beginning with the Office of the Registrar. Appeals will not be heard by the Board of Regents of University System of Georgia.

Petitions should be addressed to Kennesaw State University Attn: Tuition Classification Officer, 3391 Town Point Dr. Suite 3700, MD #9110, Kennesaw, Georgia 30144.

Board of Regents Policies Governing the Classification of Students for Tuition Purposes and Out-of-State Tuition

USG BOR policy on classification of students for tuition purposes and out-of-state tuition waivers may be found in the BOR Policy Manual section 4.3.2 and 7.3.4.1 at <https://www.usg.edu/policymanual>.

Financial Aid

Kennesaw State University is committed to ensuring that a post-secondary education is accessible to qualified students. In order to accomplish this commitment, the Office of Student Financial Aid subscribes to the following goals to assist students in paying for their educational investment:

- Evaluate the family's financial ability to pay for educational costs;
- Distribute limited resources in an equitable manner; and
- Provide a balance of gift aid and self-help aid.

A wide variety of financial aid programs from scholarships, grants, employment, and loans are available to help students with educational costs. Most awards are based on financial need while some are awarded in recognition of merit or achievement. Financial Aid is awarded based on full-time enrollment status (12 hours). Financial Aid packages for students enrolled less than full-time may require adjustments. Eligibility for awards varies with enrollment status.

For more information, visit the Financial Aid Office, view the website at financialaid.kennesaw.edu, or call the automated telephone system at 470- KSU- INFO (470-578-4636), fax at (470) 578-9096, email at finaid@kennesaw.edu or write to:

Office of Student Financial Aid
Kennesaw State University
585 Cobb Avenue, NW MD #0119
Kennesaw GA 30144-5591

Determination of Need-Based Awards

Awards based on need are determined by a process called financial need analysis. The analysis is standardized by the U. S. Department of Education (USDE) using a financial formula called Federal Methodology. The Free Application for Federal Student Aid (FAFSA) is the application that is required to begin this process. The electronic FAFSA is the easiest and quickest way to apply. The processing time for USDE is approximately four days. The electronic FAFSA may be accessed on our web site at financialaid.kennesaw.edu or www.fafsa.gov. Prior to completing the electronic FAFSA, students and parents of dependent students should obtain a FSA ID at <http://fsaid.ed.gov/npas/index.htm>.

When completing the electronic FAFSA for KSU attendance, use the Federal Title IV Code of 001577. KSU will receive your FAFSA information electronically. Students must reapply annually to qualify each academic year.

Need-Based Award Application Procedures

Need-based awards include grants, employment, loans, and some scholarships. It is advisable to complete the FAFSA early. The FAFSA is available on October 1 for the award year that starts each fall semester. The priority date for receipt of the FAFSA at KSU is May 1 of each year. FAFSAs received by the priority date with all requested documents submitted by the student and reviewed by the Financial Aid Office will be awarded first. New applicants must also apply for admissions through the Office of Admissions for a degree program.

When the FAFSA is analyzed by the U. S. Department of Education, the result is called the Expected Family Contribution (EFC). The EFC is the amount that the family should be able to contribute to the student's cost of attendance (COA). COA is the amount of direct cost (e.g., tuition, fees, room, board, and books) and indirect cost (e.g., transportation and personal expenses). Need-based financial aid is awarded to help students with need (i.e., COA minus EFC).

Federal Pell Grant

This is a federally funded program that provides need-based grants to undergraduate students without a previous bachelor's degree. The application is the Free Application for Federal Student Aid (FAFSA). Eligibility is based on the Estimated Family Contribution (EFC) and the Cost of Attendance (COA). Students receive their EFC information on the Student Report (SAR) after the submitted FAFSA is processed. The EFC range for Federal Pell Grant eligibility is 0 to 5846 . The awards range from a maximum of \$6495 (0 EFC) per year to a minimum of \$672 (5846 EFC) per year for full-time enrollment. Pell Grant is prorated according to enrollment by each term. Students receiving the Federal Pell Grant may also be eligible for other types of financial aid. Students are limited to one full-time award each academic year. Students are also limited to twelve full-time semesters of payment under the Federal Pell Grant program.

Federal Supplemental Education Opportunity Grant

This federally funded program is designed for undergraduate students without a degree with exceptional need seeking their initial degree. A student must have been awarded the Federal Pell Grant in order to receive this grant. Early FAFSA application is encouraged. Priority for these awards is given to those who file by KSU's priority filing date, March 1st.

Student Employment

Federal Work Study (FWS) Program

The program provides part-time jobs for undergraduate and graduate students who demonstrate financial need based on the Free Application for Federal Student Aid (FAFSA). FWS gives the student an opportunity to earn money to help pay for educational expenses while working on campus or in community service work. Early application with the FAFSA is recommended. Awards are generally made on a first come, first serve basis.

Institutional Employment

There are a limited number of part-time jobs available in each division of the university. Funds for these jobs are provided by the department or college that employs the student. Interested students should contact the particular division or department of the university or the KSU Career Services Center for information.

Career Services

The Career Services Center maintains a listing of full-time and part-time off-campus jobs for students who need assistance in locating off-campus employment. Regular listings are posted on the online job postings at careerctr.kennesaw.edu. For more information, contact the director of career services.

Student Loan Awards

Federal Stafford Loan-Subsidized

The Federal Government guarantees low-interest loans made to qualified students. Students may apply for this loan by completing the Free Application for Federal Student Aid (FAFSA). All loans are provided by the U.S. Department of Education. Students are allowed to select their lender and loan amount up to their award maximums. Eligible freshman may borrow up to \$3,500 per year, while sophomores (30+ earned hours) may borrow up to \$4,500 per year. Juniors (60+ earned hours) and seniors (90+ earned hours) may borrow up to \$5,500 per year. Students must be enrolled in at least 6 hours each term to receive a Federal Subsidized Stafford Loan. The amount of loan eligibility is based on need as determined by the FAFSA and the cost of attendance.

Subsidized indicates that the federal government will pay the loan interest while the student is enrolled in school.

Interest will accrue during the six months following graduation or when the student ceases to be enrolled at least half time for all new Subsidized Loans made between July 1, 2020 and July 1, 2021. The current rate of interest is fixed at 2.75% . The origination fee for the Stafford Loan is 1.057% if disbursed prior to October 1, 2021. Funds are disbursed to the student through the university in two installments. Repayment begins six months after the student ceases to be enrolled at least halftime. Students are allowed 10 years to repay the loan. For the most up to date information on interest rates and loan fees, please visit studentaid.ed.gov/types/loans/interest-rates.

Federal Stafford Loan-Unsubsidized

This loan is available to dependent students up to \$2,000 per year (above the amount of eligibility for the Subsidized Stafford Loan). This loan is also available to independent students who choose to borrow above their Subsidized Stafford eligibility or for dependent students who are not eligible for a Subsidized Stafford Loan. Students borrowing through the Unsubsidized Stafford Loan Program are responsible for the interest on the loan.

The current rate of interest is fixed at 2.75% for undergraduate students and 4.3% for graduate students. The origination fee for Stafford Loans is 1.057% if disbursed prior to October 1, 2021. Funds are disbursed to the student through the university in two installments. The amount of eligibility is based on the dependent or independent status of the student and the student's need. The application procedures and fees are the same as the Subsidized Stafford Loan Program. The student must be enrolled in at least 6 hours each term to receive a Federal Unsubsidized Stafford Loan. For the most up to date information on interest rates and loan fees, please visit studentaid.ed.gov/types/loans/interest-rates.

Federal PLUS Loan

This program is available to parents of dependent students. Parent borrowers may borrow up to the cost of attendance (at KSU) minus other aid.

The rate of interest is fixed at 5.3%. The PLUS Loan has a federal origination fee of up to 4.228% for loans disbursed prior to October 1, 2021. A credit check is required for a PLUS credit approval. If a parent's PLUS loan application is denied, federal regulations allow the student to borrow additional Unsubsidized Stafford Loan funds. The student can then request additional unsubsidized loan funds. For the most up to date information on interest rates and loan fees, please visit studentaid.ed.gov/types/loans/interest-rates.

Emergency Loan Program

Tuition and Fees and Personal Loans

The Emergency Loan Program is designed to provide temporary assistance to students during their matriculation at KSU. An emergency loan for in-state tuition and fees or an emergency personal loan for mitigating circumstances that produces a hardship may be available to currently enrolled students. The student must be currently enrolled and be in good academic standing (2.0 GPA for undergraduate students and a 3.0 GPA for graduate students). A maximum of three tuition and personal loans are allowed while a student is enrolled at KSU. A KSU student is allowed only one such loan per academic year. (An academic year is defined as the first day of class in August through the last day of finals in July.) A student is ineligible to receive an additional emergency loan if the student received such a loan the last semester attended. Students may not request both a tuition and fees loan and a personal loan in the same term. Students who need emergency funds for in-state tuition and fees or for personal circumstances should complete an application online on the Financial Aid website on the specified date. Funds for emergency loans are limited. Loans are made on a first come, first serve basis.

A service charge of \$10 will be added to the tuition and fees and/or the personal loan. The loan must be repaid within 45 days. If it is not repaid, a \$25 late charge will be added to the emergency loan. If a student is late paying an emergency loan, the student is considered delinquent in payment and is no longer eligible for any emergency loans during their academic career at KSU. Students will not be allowed to register for the following semester if they have not repaid their emergency loan.

Monies for this fund have been received from the following sources:

- General Dean Beggs Memorial-Established by the students of Kennesaw Junior College in 1967 to honor the memory of their fellow student, General Dean Beggs.
- James V. Carmichael Memorial
- Phillip B. Rice Memorial-Established in memory of Phillip B. Rice.
- Kennesaw State University Civitan Club
- Kennesaw State University Women's Club
- The Southwest Women's Club
- Marietta Civitan Club
- John L. Dees Memorial
- Smyrna Lions Club
- Betty H. McNiece Memorial-Established by Kennesaw College in 1984 to honor the memory of an employee, Betty H. McNiece.
- Kennesaw State University Rotary Club

- Student Activities Budget Advisory Committee

For more information on the Emergency Loan Program, please visit <https://financialaid.kennesaw.edu/types-of-aid/loans/emergency.php>.

Alternative Loan Program

Alternative or Private student loans are different from federal student loans in that they are not guaranteed by the federal government, require a credit check, and often a co-signer.

Loan approval, interest rates, and repayment requirements are prescribed by the lender. Additional information and application procedures are available from the Office of Student Financial Aid or the lender. Students must maintain satisfactory academic progress and must complete a FAFSA for our office to certify an alternative loan.

Merit-Based Awards

HOPE Scholarship Program

The Georgia HOPE Scholarship is a state-funded scholarship program from the Georgia Lottery for Education. Its purpose is to assist Georgia students in attending eligible Georgia postsecondary institutions to increase academic achievement, to keep the best and brightest students in Georgia, and to expand educational opportunities beyond high school to all Georgians.

Qualifications for the HOPE Scholarship

To be eligible for the HOPE Scholarship, students must meet the following requirements:

- Must complete an application - GSFAPPS or FAFSA;
- Must have at least a 3.0 HOPE GPA, which includes all college level coursework attempted since high school and from any institution attended;
- Must have attempted less than 127 hours;
- Must have not reached their HOPE Expiration Date; and
- Must be a final HOPE Scholar if less than 30 attempted hours.

HOPE Scholars

If students have recently graduated from high school, they can only be awarded the HOPE Scholarship after the Georgia Student Finance Commission (GSFC) has evaluated their high school transcripts. After noting that they are a HOPE Scholar, students may contact our office by email if not awarded HOPE at KSU.

If students are not HOPE Scholars at the time of high school graduation, they may earn the HOPE Scholarship by achieving a 3.00 HOPE GPA at 30, 60 or 90 attempted hours. If students have a 3.00 HOPE at one of these benchmarks, they should email our office.

HOPE GPA Reviews

All students must maintain a 3.00 HOPE GPA at their 30, 60 and 90 attempted hours and at the end of every Spring semester.

Zell Miller Scholarship

The Zell Miller Scholarship was created in March of 2011 for Georgia's highest performing students. To learn more about the requirements for the Zell Miller Scholarship, please visit <http://financialaid.kennesaw.edu/types-of-aid/zell-miller.php>. Students are determined initially to be eligible for the Zell Miller Scholarship by the Georgia Student Finance Commission (GSFC). Students can check their status for the Zell Miller Scholarship by checking their HOPE GPA at www.GAcollege411.org. Students will only be awarded the Zell Miller Scholarship after KSU receives confirmation of their status from GSFC.

Applying for the Zell Miller Scholarship

To apply for the Zell Miller Scholarship, students must complete a GSFAPPS or the FAFSA.

To be eligible for the Zell Miller Scholarship, students must meet the following requirements:

- Must complete an application - GSFAPPS or FAFSA;
- Must be confirmed as a Zell Miller Scholar by GSFC;
- Must have at least a 3.3 HOPE GPA, which includes all college level coursework attempted since high school and from any institution attended;
- Must not have reached the Zell Miller Expiration Date; and
- Must have attempted less than 127 hours.

If students believe they should be a Zell Miller Scholar and have confirmed their status with GSFC by checking their HOPE GPA, they should email our office.

Zell Miller GPA Reviews

All students must maintain a 3.3 HOPE GPA at 30, 60 and 90 attempted hours and at the end of every Spring semester.

HOPE For GED Recipients

Legal residents of Georgia who earned a General Education Development (high school equivalency) diploma awarded by the Georgia Department of Technical and Adult Education after June 30, 1993 may receive a one-time \$500 HOPE award. This award can be used toward tuition, books, and other educational costs at an eligible public technical institute or public or private college/university in a degree, diploma, or certificate program.

Full-time enrollment is not required. Students must use their GED HOPE eligibility within 24 months of the date of the GED diploma. Military personnel have 52 months to exercise eligibility. Students receiving this award may also qualify for other HOPE programs.

Institutional Scholarship Awards

Several privately supported scholarships for undergraduate students and fellowships for graduate students are available at Kennesaw State University. These awards are normally merit-based but some are need-based. A complete list of available scholarships and fellowships is located at kennesaw.edu/scholarships. The majority of applications are available from November through March for the following academic year.

Disbursement Procedure

After completing the FAFSA or the GSFAPPS application, financial aid funds will be disbursed to registered students in the following procedure:

Step One: Students will receive a notification of a financial aid award letter through the school-assigned email address. Students must then access Owl Express to view their award letter. Any awarded grants or scholarships (including HOPE scholarships) are automatically accepted for the student. New students who want to accept an offered student loan must go to the financial link on their OWL Express account to accept the loan(s). Students must read, accept and submit the Terms and Conditions to be able to accept the loan. Then, the tab to accept the award offer will become a clickable link.

Step Two: Financial aid funds (Pell, SEOG, HOPE, Scholarships, and Loans) are applied to the students' account on the dates indicated at financialaid.kennesaw.edu. Students receiving other types of assistance or external assistance should check with the cashier in the Bursars Office to determine the availability of such funds. Funds earned from employment are disbursed to student accounts bi-weekly.

Step Three: At the conclusion of late registration and the drop/add period, students will receive the balance of the semester award after tuition, fees, books and supplies are deducted. Students must indicate their choice through their Higher One Account. Students can select one of the following: a check from Higher One, have funds deposited to the student's Higher One debit card, or have funds transferred to the student's designated bank.

Satisfactory Academic Progress Standards Policy

Federal regulations, HEA Sec. 484(c), §668.16, 668.34, require all schools participating in Title IV federal financial aid programs to have a Satisfactory Academic Progress (SAP) policy that conforms to the requirements detailed below. These requirements apply to all students as one determinant of eligibility for financial aid.

- Your SAP status is based on your entire academic record at all schools attended (includes all transferrable hours), regardless of whether you received financial aid.
- SAP is calculated each semester after grades have been posted to academic history by the Registrar's Office.
- Students can view their SAP Status at any time via Owl Express. Students who are put on a warning or failure status are notified via their student email address and mailed a letter via US Mail to their mailing address on record.

- If after the first term of attendance you are not making SAP, you will be put on a Warning status and allowed to keep aid for one term. Your continued eligibility will be determined after the next term checkpoint.
- If your SAP status is Failure after the check is performed, you will not qualify for financial aid for the following term.
- If your SAP status is Failure and you cannot mathematically attain SAP requirements following the next term, an appeal will not be permissible. Documented mitigating circumstances may allow continued eligibility on a case-by-case basis and will require an academic plan.
- A student may appeal their SAP Failure status only twice during their academic career at KSU. Documented mitigating circumstances may allow additional appeals on a case-by-case basis.

Quantitative and Qualitative Requirements

1. **Quantitative Requirement** - The quantitative requirement has two parts:
 - A maximum time frame
 - A required completion ratio

Undergraduate Students

Maximum time frame (maximum attempted credit hours) - You must earn your degree before reaching 185 attempted credit hours, which includes transferrable credits attempted at any school prior to and while enrolled at Kennesaw State University (KSU). Students who are seeking a second undergraduate degree different from their first degree may be granted additional hours to complete the second degree requirements. Note "Determining Maximum Time Frame" below.

Once you reach the maximum attempted credit hours, you are no longer eligible for financial aid as an undergraduate student. Federal regulations stipulate that the maximum time frame for an undergraduate student cannot exceed 150% of the published length of the academic program.

Completion Ratio - You must complete and pass at least 67% of all credit hours you attempted. Courses earned include grades of A, B, C, D, or S. Courses attempted include any course in which grades of A, B, C, D, F, W, WF, I, S, U or IP are given.

Graduate Students

Maximum time frame - To determine the maximum time frame, multiply the total hours required for the degree by 150%. As an example, if the program required 33 hrs. $\times 150\% = 50\text{hrs}$. This includes credits attempted at any school prior to and while enrolled at Kennesaw State University (KSU).

Completion Ratio - You must earn at least 67% of all attempted credit hours.

Qualitative Requirement - The qualitative requirements sets a minimum Cumulative Grade Point Average for all students. Each student must maintain a 2.00 GPA each term to remain in good academic standing at KSU. The cumulative GPA includes grades of A, B, C, D, F, WF and I. The cumulative GPA, which is determined by the Registrar's Office processes, will be checked each term for SAP.

- **Undergraduate Students** - The cumulative GPA requirement is 2.00 for each term.
- **Graduate Students** - The cumulative GPA requirement is 3.00 for each term.

Policy Details

When is SAP determined?

- **Initial Review** - You are considered to be meeting SAP during your first KSU term.
- **End of Every Semester Review** - Your SAP status is calculated at the end of each semester, after grades are posted to your academic history by the Registrar's Office.

What happens when you do not meet the requirements?

- You are no longer eligible for financial aid - including work study, loans, grants or scholarships. If you're on a Warning Status - eligibility may continue (note below).
- Because you do not qualify for financial aid, you must pay your tuition and fees by the payment deadline or your registration will be cancelled by the Bursar's Office.

Maximum Time Frame (maximum attempted credit hours) - When you have attempted the maximum credit hours, you are no longer eligible to receive financial aid.

Is there extended eligibility for a 2nd bachelor's degree? - Yes. You may attempt a total of 150% of the hours needed to complete your first degree plus 60 additional hours. The standard is $123 \times 150\% = 185 + 60 = 245$ attempted hours.

Is there extended eligibility for a 2nd master's/graduate degree? - Yes. You may attempt a total of 150% of the hours needed to complete each degree.

Low Completion Ratio - There are two statuses for low completion ratio before your eligibility for financial aid is cancelled. Probation status is only allowed for one term.

- **Warning Status** - The first time you fall short of meeting the required completion ratio, your status is Warning. You remain eligible to receive financial aid while in warning status. If placed on "No Progress" status (note "No Progress" subheading), the student does not receive a Warning Status but goes to Failure Status immediately (note below).
- **Failure Status** - After attending one semester on Warning status, if you do not meet the required completion ratio, your status becomes Failure Status. You are no longer eligible to receive financial aid until the required standards are met. You must successfully appeal to regain eligibility.
- **Probation Status** - After being placed on a Failure Status, AND a student has successfully appealed and financial aid has been reinstated, the student is eligible to receive financial aid. This status is only for one term and quite often will carry conditions and/or stipulations for continued eligibility.

How do you regain eligibility?

- **SAP Appeal** - If extenuating circumstances during a specific term of enrollment prevented you from meeting the requirements, you may file a SAP Appeal.

Appeal Requirements:

- A typewritten explanation of extenuating circumstances associated with Failure Status. Indicate how these circumstances have changed so that you can comply with regulations in the future. Attach supporting documents to corroborate extenuating circumstances mentioned in the letter.
- Include a "student plan of action" for academic improvement. This requires that you meet with your Academic Advisor and receive a plan for getting back in good academic standing.
- Attach at least one letter of support from someone that can substantiate the extenuating circumstances. This individual should not be a family member. Examples would include a medical doctor, clergy, professional, etc.
- Attach the SAP Appeal form.
- The appeal form must be provided to the Financial Aid Office within the prescribed dates as noted on the SAP Appeal Form. Failure to provide these within the prescribed dates will result in a delayed determination.
- An objective committee, composed of selected individuals outside the Financial Aid Office, determines whether the appeal is approved. The decision of the Appeals Committee is final and cannot be appealed further.

Appeal Denials or Non-appeals - If you are denied an appeal or you decide not to appeal, you must complete the necessary hours and earn the appropriate grades. Once you have reached the prescribed standards you become eligible to receive financial aid.

You change from undergraduate to graduate - If you reach Failure Status as an undergraduate, and then are admitted to a graduate degree program, you will be eligible to receive financial aid as a graduate student. You must be in a degree-seeking status and fully accepted into the graduate program.

Academic Circumstances that Affect Your Status:

- **Changes in major, double majors or minors** - may cause you to reach your maximum attempted hours, and lose your eligibility before earning a degree.
- **Incomplete grades, missing grades, failing grades, course withdrawals** - all reduce your completion ratio, because they are counted as attempted, but not earned credits. They also count against your maximum attempted hours.
- **Repeated courses** - count as attempted credit hours each time you register for them. They also count against the allowed maximum. This can also reduce your completion ratio because repeated credits count as earned credits only once. NOTE: The U. S. Dept. of Education allows only one retake for Title IV credit.
- **Academic Fresh Start** - count against your maximum attempted credits, and also lower your completion ratio because the credits count as attempted but not earned.
- **Transfer credits, credits taken while cross-registered, enrolled in study abroad, transient study** - count toward your maximum attempted credits and your completion ratio. NOTE: Credits count as attempted, but not earned, until your official transcript is reviewed and processed by the KSU Registrar's Office. This could cause you to be in a Failure Status.
- **Remedial courses** - count as attempted and earned credits and are included in the GPA calculation.

- **Late posted grades or grade changes** - Once notification is received from the Registrar's Office of grade changes, the SAP status will be recalculated.
- **Dismissal and Return** - students who are suspended academically or choose not to attend because of SAP Failure will not be automatically eligible for financial aid upon their return. Student must meet both qualitative and quantitative standards of SAP. If below standards, a student must appeal or use means other than financial aid for educational expenses. Absence does not restore eligibility for financial aid. It remains the responsibility of the student to be knowledgeable of their SAP standard when returning to school after dismissal or choosing not to return because of SAP Failure.
- **Summer Term Courses** - all hours attempted and completed in the summer terms are treated as any other semester hours in determining SAP status. SAP will be checked following the summer term as well.
- **Audit Courses** - students are not eligible to receive financial aid for audit courses. Audited courses are not included in hours attempted or earned for SAP determination.
- **Students pursuing dual bachelor's/master's degrees** - Students who are pursuing dual degrees are subject to the maximum time frame rules but may be reviewed on a case by case basis by the Office of Student Financial Aid.

The Office of Student Financial Aid reserves the right to review denied appeals, cumulative GPA's and completion rates on a case by case basis.

Other Financial Services

Veterans' Benefits

The university is on the approved list of the Georgia State Approving Agency for the training of veterans, disabled veterans, and the children and widows of deceased/disabled veterans who are eligible for benefits under the GI Bill®.

Students using Chapter 33 (Post 9/11) benefits under the GI Bill® are required to pay (by the Final Payment Deadline) any tuition and fees not covered by the VA. The VA does not pay tuition and fees to Kennesaw State University for students using Chapter 30, Chapter 1606, or Chapter 35 benefits. These students are responsible for payment of their tuition and fees by the payment deadline, since they are paid benefits directly through Veterans Affairs.

Students using VA Chapter 33 or VA Chapter 31 education benefits will be allowed to attend and participate in their course of education provided they have submitted to their Veteran Certifying Official a current Certificate of Eligibility or Statement of Benefits "eBenefits" (for Chapter 33) or a current VA Form 28-1905 (for Chapter 31). If the VA delays in submitting funds to KSU for these students, these students will have full access to their classes, libraries, and other institutional facilities. They will not be required to borrow funds and will not have penalties or late fees imposed because of the VA's delay.

KSU and the VA do not have an agreement to process tuition/fee waivers; therefore, failure of the VA to pay students in a timely manner does not eliminate or delay a student's financial responsibility to Kennesaw State University. Each VA beneficiary should make financial preparation for at least one semester because benefit checks are sometimes delayed.

Eligible veterans and the children and widows of veterans must make application for the benefit to their regional Veterans Affairs. The Military and Veteran Services Office can assist with the application process.

Veterans who wish to use VA Chapter 31 Vocational Rehabilitation benefits must contact the VA Regional Office to be assigned a counselor to help with the application process. All other benefits can be applied for online at www.vets.gov. Students in training under Chapter 31 are responsible for making sure their counselor has provided a current VA Form 28-1905 for their benefit, and should check with the University Business Services Office regarding the handling of their account for fees, supplies, etc.

Students attending on the GI Bill® are certified for VA benefits only for those courses required in their particular programs of study. Courses taken for audit are not payable by the VA. Such students must maintain Kennesaw State University standards for academic performance. Those students who are academically dismissed from school will have their benefits interrupted. Upon readmission and re-certification for benefits at Kennesaw State University, the VA will decide if further benefits may be paid for continuation of the program in which the academic deficiency occurred.

Current VA standards require that students attend class and that benefits be terminated when the student has stopped attending or has been suspended for academic or disciplinary reasons. Since VA regulations are subject to periodic change, it is the student's responsibility to keep up to date on requirements for VA benefits while in attendance at Kennesaw State University.

Any veteran or dependent wishing to use the GI Bill® benefits must contact their VA Certifying Official. The offices of the VA Certifying Officials are located in the Office of the Registrar. Students using VA education benefits must submit their letter of eligibility to their Veteran Certifying Official no later than the first day of the course of education. Students must also submit KSU's Veteran's Enrollment Data Sheet and VA Education Benefits Statement of Understanding. Students who do not have the full Chapter 33 benefit (less than 100%), or who enroll in classes not required for their degree program, or who have other financial obligations to Kennesaw State University, are still responsible for their portion by the payment deadline (as listed in the Academic Calendar on the Registrar's website). Failure to pay non-VA covered charges are subject to deletion of classes and late fees.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at <https://www.benefits.va.gov/gibill>

Computing and Information Resources

Technology is increasingly an integral part of a student's education. In addition, many student services and information are delivered via technology. To provide KSU students with a quality education delivered most conveniently, technology is used as an essential part of instruction, for student access to educational materials, and for the delivery of student services.

A technology fee is collected each term to provide students with improved technological resources including: greatly enhanced access to the internet; general and academic-specific software packages delivered online via virtual computing labs; training in the use of computer and audio visual technology; extended computer laboratory hours; electronic study rooms in the Kennesaw Campus library, and extended hours for technical support for campus applications.

The Kennesaw State University Website exists to assist students with course registration, the reviewing of grades, and access to the learning management system. In addition, the KSU Website delivers quality mobile content for smartphones and tablets. Each year brings new technology, creative uses of technology on campus, and additional services to meet growing needs.

Mandatory KSU E-Mail Account

KSU generated e-mail accounts are the official means of communication with students. Instructions can be found at <http://www.kennesaw.edu/myksu/>.

KSU's Chief Information Officer & Vice President of Information Technology

The Chief Information Officer (CIO) & Vice President of Information Technology provides leadership in the continuing advancement of information and instructional technology. This position oversees the operations of information technology, which includes the University Information Technology Services division and the technical infrastructure of the KSU Library System.

The KSU Library System

The KSU Library System includes two libraries, the Horace W. Sturgis Library located on the Kennesaw Campus, and the L.V. Johnson Library located on the Marietta Campus. Their locations and contact information are as follows:

Horace W. Sturgis Library (Kennesaw Campus)

385 Cobb Avenue NW, MD1701
Kennesaw, GA 30144

Departments & Services:

Check Out Desk - 470-578-6202
Research Help - 470-578-6325
Interlibrary Loan - 470-578-6002

L. V. Johnson Library (Marietta Campus)

910 Hornet Loop
Marietta, GA 30060

Departments & Services:

Check Out Desk - 470-578-7276

Research Help - 470-578-7471

Mission / Vision

The mission of the Kennesaw State University Library System is to support and further KSU's mission of being a powerful, diverse, student-centered, and research-driven university. The Library System carefully cultivates resources, services, and spaces that enhance teaching, learning, scholarship, and creative endeavors for our users. These efforts focus upon supporting student success - especially advancing undergraduate programs, supporting the graduate programs, furthering research with relevance, and promoting lifelong learning.

The vision of the KSU Library system is to advance student success, lifelong learning, and research with relevance through teaching, access, and discovery with the expertise and dedication of our professional faculty and staff.

Library Resources

The Kennesaw State University Library System holds a growing number of carefully cultivated resources and services designed to assist students and faculty. Collections include over 104,000 e-journal titles; 800,000 e-books; 14,000 Federal Serial Sets (approximately 9.7 million pages); 62,000 federal maps; 1,300,000 music scores; over 10,000,000 audio recordings; and 100 collections of data-sets representing over 12,000,000 data points. The KSU Library System proudly hosts and maintains the university's institutional repository, the Digital Commons, which is home to 13,374 resources and over three million downloads worldwide.

Because the KSU Library System is a participating member of GALILEO Interconnected Libraries (GIL), students and faculty have access to and borrowing privileges from the collections in all of Georgia's public college and university libraries as well as a number of private university libraries. GALILEO and GIL provide access to the collections of the finest doctoral research university libraries in the state. The comprehensive holdings of Georgia's virtual library system include over 10 million volumes and thousands of full-text periodicals accessible through 384 electronic databases. Consequently, the discipline-specific library resources available to support the KSU colleges and programs are extensive. KSU is also a charter member of LYRASIS, a national and international bibliographic cooperative in library resource management. LYRASIS uses its large library membership to secure discounted purchasing prices and licensing fees for a wide variety of eResources and eContent materials.

Federal Government Documents Depository

Located at the Johnson Library on the Marietta campus, the KSU Library System houses a partial Federal Government Documents Depository for the 11th Congressional District.

Library Services

As a physical and digital library system, we emphasize access to library services regardless of location or need, whether that is, on campus, at off-campus locations, and/or via distance learning technologies. The physical libraries are open about 100 hours per week on each campus with extended hours during exams. For research assistance, the libraries offer both assistance in the libraries as well as a 24/7 chat service where users can receive remote assistance from a librarian at any time. The Library System also offers in depth one-on-one research consultations, both remote and in person. Online library resources are accessible via individual user login authentication all day, every day, and online and distance education students also benefit from ubiquitous access to high-quality information resources. Each library offers orientation sessions and information literacy instruction in a variety of formats, including course integration. For resources external to the KSU Library System, the libraries offer robust borrowing and loan programs. The university's Archives and Special Collections are also located within the libraries and are available via appointment.

Study Spaces

Both individual and group study spaces are available at both libraries. In the Sturgis Library, the ground floor provides a community space where students have access to computers and printers. The 1st floor learning area is called OwlSpace, and it is a "noisy" space where students are free to collaborate and work on group projects. OwlSpace also includes computers and multiple presentation rooms. The third floor offers a quieter study area containing individual study cubicles as well as seven glassed-in study rooms for quiet group study, and a printer and microfilm reader.

In the Johnson Library, the first floor Hive area is a "noisy" community space where students have access to computers and communal seating. The second floor provides access to quiet study rooms for group study and individual study cubicles.

Borrowing Privileges

KSU students and faculty have borrowing privileges not only from the KSU Library System but also from all of the member institutions in the University System of Georgia as well as the Atlanta Regional Consortium for Higher Education (ARCHE). Through the SuperSearch discovery tool, students can instantly access millions of resources including books, ebooks, journals, databases, videos, and government documents. Mobile versions of the library catalog and databases are available. Interlibrary Loan services may be used for items not owned by one of the participating Georgia libraries

Digital Commons

The KSU Library System hosts the DigitalCommons@Kennesaw State University. The Digital Commons is a digital resource for KSU's intellectual and creative out-put. With the increase in KSU's graduate programs, the Library System uses the Digital Commons to self-publish dissertations, theses, and capstone projects and make them available online. These resources are fully searchable by keyword or author and are indexed by major search engines such as Google Scholar.

For more information about the libraries visit our webpage at library.kennesaw.edu.

University Information Technology Services (UITS)

University Information Technology Services (UITS) provides KSU with the technical resources for students to carry out scholarship, academic collaboration, research, and innovation. Students can expect the state of the art technology they require for learning management, research and study, course registration, in addition to university classrooms fully equipped with modern audio-visual technology.

Students are assigned a KSU email account, personal web space, and cloud file storage. Students are also eligible to participate in online and face-to-face training sessions for commonly used software, multimedia development, production assistance and information security.

Student software applications are accessed via a single sign-on authentication with one login ID (NetID) and one password. Student Help Desks with extended hours, telephone and email support, and walk-up services are available at the Kennesaw and Marietta campuses to answer any questions and provide technology advice. Wireless access is available on all campuses and continues to expand as the University grows.

UITS maintains both traditional computer labs with printing and copying services as well as Virtual Labs that allow students to use productivity- and academically specific- software at home on their own devices.

UITS AV Circulation is a free service provided to students for academic and "Not for Profit" usage on both the Marietta and Kennesaw Campuses. Examples of available equipment include items such as: HD video and still DSLR cameras, professional video production cameras, microphones and lighting equipment, tripods, PA systems, data projectors and projection screens. Walk-ins are welcome; however, advanced reservations are preferred to ensure item availability. Reservations may be made in person or online at avcheckout.kennesaw.edu.

The rules for use of all campus technology and telecommunications equipment, including telephones, computers and fax equipment, are found on the KSU web site at policy.kennesaw.edu. Use of any of these facilities or services implies an understanding of and compliance with these policies.

Visit uits.kennesaw.edu to learn more about the technology services available for students and to find contact information and operation hours for the KSU Service Desk.

Academic Policies Introduction

Student Responsibility

Students are expected to have read this section of the catalog and to be generally familiar with academic rules. Students are expected to consult this section of the catalog and follow the procedures that are outlined herein when the appropriate time in their academic tenure approaches. For example, students who are within a year of graduating should review the graduation section and comply with the time table for petitioning to graduate.

In a pedagogical setting, students are expected to develop the ability to read and follow instructions as part of their educational experience. Academic advisors are available to help students interpret what they have read and to encourage appropriate actions. However, it is the student's responsibility to ask questions when in doubt, and to seek out information from official sources rather than to allow rumor to dictate actions.

Student Records

In accordance with the policy of the Board of Regents of the State of Georgia and under the provisions of the Family Education Rights and Privacy Act of 1974 (FERPA), Kennesaw State University maintains various educational records for each matriculating student.

These records are considered confidential and will not be released for use outside the institution without the written consent of the student. Exceptions as authorized by the Act are noted below.

Program and Course Requirements

It should be noted that program and course requirements and university policies are subject to change without advanced notice. Changes in policy and requirements enacted by the Board of Regents take precedence over existing university policies and requirements. The University will make reasonable efforts to accommodate students affected by such changes, but reserves the right to determine where and to what extent it will grant exceptions to new policies and requirements. In cases where courses are deleted, students must substitute courses deemed acceptable by the faculty or chair responsible for the degree program in question.

Directory Information

The items listed below are designated as "Directory Information" at Kennesaw State University and may be released for any purpose at the discretion of Kennesaw State University:

- student's name
- major field of study
- academic advisor
- dates of attendance
- degrees awarded

- participation in officially recognized activities or sports
- awards and honors received
- weight and height of athletic participants

Directory information will be withheld if requested by the student. To withhold directory information, the student must complete the Release of Directory Information form and mail the request to the Office of the Registrar, 585 Cobb Avenue, MB #0116, Kennesaw, GA 30144 or hand deliver the request to the Office of the Registrar located in Kennesaw Hall or email the request to registrar@kennesaw.edu.

Students should consider very carefully the consequences of any decision to withhold "Directory Information." Choosing the item "Student Confidentiality" will result in the exclusion of all student record information, including student name/address from printed materials (i.e. commencement program). Informing Kennesaw State University not to release "Directory Information" means any future requests for such information from non-institutional persons or organizations will be refused.

Student Email

The official means of communication between the university and students is the KSU student email. Students are responsible for information sent to their university email accounts.

Telecommunications Policies

The rules for use of all telecommunications equipment, including telephones, computer and FAX equipment, are found on the KSU Web Site at uits.kennesaw.edu/ or they can be reached from the KSU Intranet Home Page by choosing the topic Issue Specific System Policies from the "Computing Resources" section.

Use of any of these facilities implies an understanding of and compliance with these policies.

Academic Policies Transfer Policies

Transfer Evaluations

When a transfer student is fully accepted to Kennesaw State University, the Office of Admissions notifies the Office of the Registrar that a transcript has been received. Transcripts are evaluated in the order they are received from the Office of Admissions and are completed on average within 2-3 weeks. Once completed, an evaluation confirmation notice is emailed to the student and transfer credits are viewable on the Owl Express transcript. DegreeWorks may be used to determine placement of transfer courses to the degree and facilitate academic advising.

Transfer credit for readmission students will be re-evaluated in accordance with the transfer evaluation policies in effect for the term a student is readmitted to KSU.

Copies of transcripts from other universities cannot be reissued to the student.

For more information, please visit transfer.kennesaw.edu

Military Transfer Credit Practice

Military Transfer Credit may be awarded for undergraduate students accepted to Kennesaw State University Fall 2012 or later who have served in the U.S. Military and who desire to have their military experience considered for transfer credit. . Students must request their official Joint Services Transcript (JST) be sent directly from JST to the Office of the Registrar, Graduation Audit and Transfer Evaluation Services (G.A.T.E.S.).

Students should submit their JST transcript for evaluation prior to the add/drop period of their first term of matriculation at Kennesaw State University in order to allow for accurate academic advisement and accurate determination of financial aid eligibility. The final deadline for any military transfer credit to be awarded to a student's record is the last day of classes of their first term of matriculation at Kennesaw State University. Students seeking to have any military transfer credit added to their record after this deadline must submit an appeal for review by G.A.T.E.S. and the Office of Financial Aid in order to determine if any military transfer credit can be awarded.

All experience and coursework listed on a JST transcript will be evaluated for applicability toward a student's current degree program. Students may have the option of accepting or declining the military credit determined to be applicable toward their degree program. As of Fall 2019, awarded military transfer credit will receive a grade of "K". From Fall 2012 to Summer 2019, all awarded military transfer credit received a grade of "S". For more information regarding these types of grades please refer to the Academic Grading Policies section of this catalog. All previously awarded military transfer credit will remain as a grade of "S" on a student's record. Regardless of the term credit is awarded, military transfer credit cannot be removed from a student's record.

If a student changes their degree program at a future date, they have the option to submit an appeal for G.A.T.E.S. and the Office of Financial Aid to review and determine if the student is eligible for any additional JST credit to apply toward their new degree program.

Military Transfer Credit is not applied toward institutional graduation residency requirements and is not calculated in the graduation GPA. Kennesaw State University limits academic residency for active-duty service members (including Reservists and National Guardsmen) to no more than twenty-five percent of the degree requirements for all undergraduate degrees. Active-duty service members can satisfy academic residency requirements at any time during their program of study, specifically avoiding any final year or final semester residency requirement, subject to stated requirements in specific course areas such as majors.

Kennesaw State University affirms its commitment to fair, equitable, and effective policies and practices that recognize and deal with the special conditions faced by military students who want to obtain a college education.

Credit by Exam

There is no limit for the amount of credit by exam hours a student may receive. Credit by Exam hours are not applied toward institutional graduation residency requirements and they are not calculated in the graduation GPA. The graduation residency requirement serves as the limit for the amount of credit by exam credit a student may receive.

PLA credit is not awarded based upon high school or college transcripts. Official score reports for AP, IB, CLEP, DSST and FLATS must be sent from the testing agency to Kennesaw State University to be considered for credit.

Students are required to meet all residency requirements.

College Level Examination Program (CLEP) for Advanced Standing

Students are eligible to take standardized examinations in a number of areas to earn credit for certain specific courses, provided a minimum score is attained on the tests. Credit earned will be recorded on the student's permanent record. For specific information concerning subject areas in which tests are available, the cost and minimum score required for credit, please visit Academic Testing Services at <http://testing.kennesaw.edu> and review Tests Offered. CLEP credit may not be awarded for a course previously failed or audited.

Advance Placement (AP)

Kennesaw State University honors Advance Placement (AP) credit for certain classes in which an equivalent is offered and for which the required grade is achieved. For details on the scores required and course equivalencies, please visit the Registrar's website and review Credit By Exam at <http://transfer.kennesaw.edu>.

International Baccalaureate (IB)

Kennesaw State University honors International Baccalaureate (IB) credit for certain classes in which an equivalent is offered and for which the required grade is achieved. For details on the scores required and course equivalencies, please visit <http://transfer.kennesaw.edu>.

DANTES Subject Standardized Test (DSST)

Kennesaw State University honors DANTES Subject Standardized Test (DSST) credit for certain classes in which an equivalent is offered and for which the required grade is achieved. For details on the scores required and course equivalencies, please visit the Registrar's website and review Credit by Exam at <http://transfer.kennesaw.edu> Credit may not be awarded for a course previously failed or audited.

Departmental Course Examination for Advanced Standing

Academic Departments do on occasion offer course examinations for credit to students who offer satisfactory evidence. A list of available exam options may be found on the Prior Learning Assessment website under Exam Options for Credit at <http://pla.kennesaw.edu> These exam options vary by course and by department. Requirements to sit for the exam are determined by the academic home department and described on the Prior Learning Assessment (PLA) website under information and future Scholarships, Departmental Plans at <http://pla.kennesaw.edu>

If the required score for the examination is met, students will receive the credit equaled with the course. These credit hours will not be included in the calculation of the Institutional Grade Point Average (GPA).

Requests for department course examinations should be initiated through Owl Express

Authorization will not be given for a course under any of the following circumstances:

- If the student has previously audited the course
- If the student has previously scheduled and failed the course
- If the student has previously scheduled the course, but has withdrawn after the first two calendar weeks from the day the semester begins.
- If the student is currently enrolled in the course.
- If the course is a prerequisite or an introduction to a course already completed. (This provision does not apply to skills courses such as physical education or music, for example)
- If the course may be granted credit by a CLEP exam.

Credit earned by institutional advanced standing examination may be used neither to satisfy residency requirements nor to satisfy more than one half of the major-field or minor-field requirements in a program of study.

A passing grade for an institutional advanced standing examination is a grade of 75 percent or higher for a lower-division course and a grade of 80 percent or higher for an upper division course.

A fee of \$60 will be assessed for each institutional advanced standing examination attempted; no course may be attempted more than once.

A student must be admitted to the university at the time of application for advanced standing and must be enrolled in the university to receive credit for a course by advanced standing examination.

Substitutions

Students with advanced standing credits or transfer credits for courses similar to those required in the General Education Core Curriculum may be permitted to satisfy KSU's requirements through approved course substitutions. Students seeking such substitutions should contact the department chair of the respective course discipline.

Transferring Core Curriculum Credits to KSU

Students transferring to KSU from another USG institution may take advantage of the following policy by completing the General Education Program. Students successfully completing a course in one institution's Areas A-E will receive full credit in Areas A-E for the course upon transfer to another USG institution as long as the following conditions are met:

- The course is within the Area hours limitations of either the sending institution or the receiving institution and
- The student does not change from a non-science major to a science major

Please note that additional courses may be required if they are prerequisites to major courses. Area F (lower division major) courses require a grade of "C" or better. Once the transfer evaluation has been

completed, refer to DegreeWorks in Owl Express to determine how transfer credit is applied to a particular program of study.

Transferring Core Curriculum Credits to Another USG Institution

Students transferring from KSU to another USG institution may take advantage of the following policy by completing the General Education Program. Students successfully completing a course in one institution's Areas A-E will receive full credit in Areas A-E for the course upon transfer to another USG institution as long as the following conditions are met:

- The course is within the Area hours limitations of either the sending institution or the receiving institution and
- The student does not change from a non-science major to a science major

Consult the transfer evaluation office at the receiving institution for specific transfer equivalencies.

Accreditation/Transfer Credit Practice

Transfer Credit is awarded from institutions holding Regional Accreditation status. Credit may be accepted for alternative accrediting bodies specifically recognized by AACRAO as long as the acceptance practice is reported as "AG" (generally accepted) by the flagship institution of that state.

TCSG

Credit will be accepted from TCSG institutions in observance of USG/TCSG transfer policy. Additionally, credit may be accepted for collegiate-level coursework at SACSCOC-accredited TCSG institutions.

International Transfer Credit Practice

International transcripts must be evaluated and endorsed/certified/accredited by an evaluation agency. The evaluation agency must be a current member of the National Association of Credential Evaluation Services (NACES). A course-by-course evaluation is required.

For transfer credit evaluations, international course descriptions must have been translated by a recognized translation service and certified as a true and correct translation.

Transfer policy for all students

Transfer credit will be awarded for course work with a minimum grade of "D" except for ENGL 1101 & ENGL 1102, which require a minimum grade of "C." Additionally, unless noted in the catalog, a minimum grade of "C" is required for major-related courses and/or prerequisites to major courses. Provided that native and transfer student are treated equally, institutions may impose additional reasonable expectations, such as a grade of "C" in Area A-F courses.

Credit Evaluator

Core Curriculum Courses

Transfer credit evaluations of the core curriculum are determined by the Registrar transfer evaluation staff in collaboration with academic departments. Transfer credit evaluations must adhere to USG transfer policies, reciprocity agreements, and other approved articulation agreements.

Major related courses

Transfer credit evaluations for the major-related coursework are determined in collaboration with academic departments.

Academic Policies Registration Policies

All registration at Kennesaw State University is conducted over the web through Owl Express.

Registration Access

Access to registration will be granted by time tickets in Owl Express based on a student's number of overall earned hours (this includes transfer hours). The University may grant earlier access to registration to certain students who have been approved by the University.

Maintaining Eligibility to Register

A student must enroll during one semester each year to maintain eligibility to register for courses. If a student is not enrolled three (3) terms or more (including summer), the student must apply for readmission through the Office of Undergraduate Admissions.

Holds on Registration

Holds may be placed on a student's registration in order to satisfy an obligation owed to the University. Holds are displayed on the student's advising guide through Owl Express. Failure to return equipment or lab supplies may also result in a financial hold. Registration and transcript requests may not proceed unless all holds are removed.

Verification of Course Schedule

Each student must verify that student's class schedule for each semester enrolled. No course additions/deletions are permitted after Drop-Add has ended. Each student is responsible for verifying the student's class schedule, including credit hours, in Owl Express for accuracy.

Credit Hour

KSU defines a credit hour as a minimum of 2,250 minutes of academic engagement per semester. For many courses, the time is distributed as 750 minutes of direct, faculty-led instruction and 1,500 minutes of out-of-class academic engagement. For a 15-week semester (i.e., Spring Semester or Fall Semester), that equates to 50 minutes of direct, faculty-led instruction and 100 minutes of out-of-class academic engagement per week. An equivalent amount of work and a minimum of 2,250 minutes of academic engagement per credit hour is required for credit-bearing educational activities, for which the direct, faculty-led instruction time varies, including internship, field experience, cooperative education, and some online courses. Thus, this definition applies regardless of type of course, term length, and delivery mode.

Classification of Courses

Kennesaw State University divides courses completed for academic credit into four categories - lower division, upper division, graduate, and doctoral - representing increasing levels of rigor. Lower-division courses are numbered 1000-2999; upper-division, undergraduate courses are numbered 3000-4999; graduate courses are numbered 5000-7999; doctoral courses are numbered 8000-9999. Advanced, undergraduate coursework for the five-year, Bachelor of Architecture program are numbered 5000-5999. Graduate courses are open only to students accepted to graduate study. Courses numbered below 1000 do not count for degree credit but do count for determining fees and enrollment status.

Graduate students may use graduate level work only to complete their degree requirements. Undergraduate coursework may not substitute or transfer more than one level; (i.e. 1000-level course may not be used for 3000-level courses and vice versa). Graduate-level work may be used only in the undergraduate degree if a Double Owl Pathway is in place (maximum 9 credit hours).

Full Time and Maximum Course Load

For an undergraduate student, twelve (12) semester credit hours is a full-time load for determining veteran status, financial aid, insurance eligibility, etc. However, a student must complete an average of fifteen (15) semester credit hours each fall and spring semester to complete a 120-credit-hour undergraduate degree in four years. Nine (9) semester credit hours is a reasonable load for a shorter summer semester. Although, financial aid and insurance rules may require a student to attempt twelve (12) semester credit hours - a full-time, undergraduate load - or more. For graduate students, nine (9) semester credit hours is a full-time load.

During fall and spring semesters, a student may register for a maximum of 18 semester credit hours without additional approval. The Office of the Registrar may approve a course load of more than 18 credit hours, if the student's Institutional GPA is 3.5 or higher. Additionally, course loads above 21 credit hours require a recommendation from the Department Chair applicable to the student's major.

During summer semester, a student may register for a maximum of 13 semester credit hours without additional approval. The Office of the Registrar may approve a course load of more than 13 credit, if

the student's Institutional GPA is 3.5 or higher. Additionally, course loads above 15 credit hours require a recommendation from the Department Chair applicable to the student's major.

A student on academic probation should consult the Academic Probation section of the Catalog for additional course-load limitations.

Course Audits

A KSU student may request to audit one or more courses. An audited course does not affect the student's GPA, requires the same tuition and fees as a course taken for credit, and will be noted in Owl Express and on the transcript with the symbol "V."

Withdrawal from an audited course is subject to the KSU withdrawal policy.

A student may choose to enroll in a previously audited course for a grade or for an additional audit attempt. However, the applicable department may choose to limit course audits.

A student requesting to audit a course should meet with the applicable academic advisor and complete an Audit Request Form. The completed form must be submitted to the Office of the Registrar no later than the last day of Drop-Add. Changes in an audit status cannot be made after Drop-Add has ended.

Prerequisites

Registration for many courses is restricted to students who completed certain coursework (i.e., prerequisite course(s)), met certain milestones (engineering standing, admission to the program, earned more than a particular number of credit hours, etc.), or permission from applicable faculty. Each student is responsible for identifying prerequisites and planning a program of study in consultation with an academic advisor. For example, lower-division major courses are designed to serve as preparatory for upper-division major courses.

Enrollment Classification

Undergraduate students will be classified based on the number of earned institutional hours.

- Freshman: 0 - 29 hours
- Sophomore: 30 - 59 hours
- Junior: 60 - 89 hours
- Senior: 90 hours or more

Tuition Classification

Each student is responsible for registering for classes in the correct tuition classification (in-state or out-of-state). To be classified as an in-state student with a resident tuition classification, the student must provide verification of lawful presence in the United States.

Withdrawal from Classes

Students who withdraw from courses before the withdrawal deadline, as specified by the academic calendar will receive a grade of W. A student who officially withdraws from a course by the end of the last day to withdraw without academic penalty will receive a grade of "W" and receive no credit.

A student who officially withdraws from a course after the last day to withdraw without academic penalty and before the last week of classes during the semester will receive a grade of "WF," which will be counted as an "F" in the grade point average calculation.

Students may drop one, some, or all of their classes during the drop/add period. Courses dropped in this manner do not appear on a student's transcript and are not considered as hours attempted for financial aid purposes. No grade is assigned for such courses. However, a student who wishes to withdraw from a course after the last day of the drop period for a term must withdraw through Owl Express. Students with an active registration hold on their record must clear that hold before being able to withdraw from their coursework.

If a student experiences significant personal hardship (e.g., medical or family emergency, prolonged illness), the Dean of Students can approve a hardship withdrawal from all courses in the term for which the student is currently registered. In the case of an approved hardship withdrawal from all courses, the Registrar will assign grades of "W" for those classes. The deadline for final approval of a hardship withdrawal by Dean of Students is the last day of class for which the hardship withdrawal is sought. If the hardship withdrawal process is not complete by the last day of class for which the hardship withdrawal is sought, a student must appeal for a retroactive hardship withdrawal from the Academic Appeals Committee.

Appeals for retroactive hardship withdrawals must be directed to the Academic Standing Committee. Retroactive hardship withdrawals are rarely granted if it has been more than one year since the last day of class for which the withdrawal is sought. Extraordinary justification must be shown. In the case of approved retroactive hardship withdrawals, the Registrar will assign a grade of "W."

If a student is suspended by the Office of Student Conduct following a violation of the University's Code of Conduct not related to academic dishonesty, the Office of Student Conduct may facilitate a University-initiated withdrawal from courses for which a student is registered for the term. The Registrar will assign grades of "W" for those classes.

A student will receive a refund only when the student withdraws from ALL courses for the applicable semester and only by the schedule outlined in the University refund policy.

Students should be aware that a reduction in their hours might result in the loss of full-time student status and thus affect their financial aid, scholarships, athletic and ticket eligibility, University housing accommodations, use of University resources and access to University facilities, immigration status for international students, and Veterans Educational Benefits. Students should contact the appropriate office and their academic advisor with questions about the impact of their withdrawal from a course before initiating a withdrawal. Veterans and dependents of veterans who receive educational benefits must notify the Veterans Education Benefits Area in the Office of the Registrar of any course load reductions.

Military Withdrawals

A student will receive a "WM" symbol for all courses and a full refund of tuition and mandatory fees and a pro rata refund of other fees for military and other service, as defined by BOR Policy Manual, Section 7.3.5.3. To request a military withdrawal, the student must submit a copy of official orders to the Office of the Registrar.

Military Short-Term Absence Policy

The University recognizes and appreciates the important contributions made in service of our country by Active Duty, Reserve, and National Guard members and their dependents. At times these students may be called to fulfill their duties for training or short-term deployment, which cause students to be absent from classes for a short period of time. These absences qualify as "excused absences" which means that the absence, with proper documentation provided, is not subject to penalty and coursework may be satisfied through agreement between individual instructors and students.

A. For any emergency orders where the student will be absent approximately 3 weeks or less: Students are responsible for making arrangements with instructors to maintain and/or make up classwork as needed. Service members should provide instructors with maximum advance notice of absences, providing copies of directives from the Military, Reserve, or National Guard.

B. A student who will be absent for up to three weeks will be allowed to make up any missed work within a reasonable time frame (generally up to 30 days) without a grade penalty. Instructors must accommodate absences of up to three weeks for 15-week semesters and a proportional duration for other sessions. It is the responsibility of the student to communicate in writing directly with each instructor, as far in advance as possible, so appropriate accommodations can be made.

C. For time-sensitive state or federal emergencies/activations where written documentation may not be available until the end of the obligation, the student is responsible for securing the orders to provide to faculty members upon return to the University.

Transient Authorization for a KSU Student to Attend Another College/Institution

A KSU student requesting to register as a transient student at another institution must complete the Transient Letter through Owl Express. In order to be eligible for transient status, a student must be an undergraduate, in good standing, and have completed at least one semester at KSU. The student must be currently enrolled or enrolled within the past three semesters. A student not in good academic standing or in the student's first semester of attendance may complete the Transient Letter through Owl Express to acquire a letter of no objection. Transient coursework will not be included in the KSU Institutional GPA. If a student repeats a course previously completed at KSU as a transient student at another institution and receives a higher grade in the transient course, the KSU grade will be excluded from the KSU Institutional GPA. Transient forms will only be processed for the upcoming semester. A student on disciplinary suspension or expulsion will not be issued a transient statement. The student should consult with the student's academic advisor prior to enrolling in the transient course(s).

Cross Registration - Atlanta Regional Consortium for Higher Education (ARCHE)

Kennesaw State University is a member of the Atlanta Regional Consortium for Higher Education (ARCHE), an association of colleges and universities in the Atlanta area offering a combination of reciprocal academic services, such as cross registration, interlibrary loans, and visiting-scholars program.

The cross-registration program is available to students officially enrolled in ARCHE institutions. This program is distinct from transient status in that it is possible for a student to register for an approved course at any of the 20 consortium schools and receive credit, while paying tuition costs to the home institution. The intent is to allow a qualified student to complete coursework in that student's area of study that is not available at the home institution.

A student applying to cross register must meet all eligibility requirements under the ARCHE agreement and the partnering school. Courses taken at a partnering school are transferred back as transfer credit. Credits earned through the ARCHE program do not count in the KSU residency requirement.

To be eligible to participate, the student must be in good standing and must have the recommendation of the faculty advisor or Department Chair at the home institution. Cross registration may be pursued only for courses not offered at the home institution for the given term and is not recommended for a student enrolled in the student's last semester before graduation. A KSU student must be enrolled for at least one semester hour at KSU in order to cross register. To apply for cross registration at an ARCHE member institution, a student must submit a Cross Registration Application to the Office of Registrar. KSU's cross registration coordinator should be consulted for individual member college cross-registration deadlines. A complete list of the requirements for eligibility and registration procedures are located on the application.

Member Institutions

Agnes Scott College
Brenau University
Clark Atlanta University
Clayton College & State University
Columbia Theological Seminary
Emory University
Georgia Gwinnett College
Georgia Institute of Technology
Georgia State University
Interdenominational Theological Center
Kennesaw State University
Mercer University of Atlanta
Mercer University
Morehouse College
Morehouse School of Medicine

Oglethorpe University
Savannah College of Art and Design - Atlanta
Spelman College
University of Georgia
University of West Georgia

Attendance Policy

Attendance in classes, laboratories, and lectures is important. Each student is expected to attend the activities corresponding with the student's schedule of courses. The instructor determines the attendance policy for the course and at the beginning of the semester, provides the students a clear statement regarding the absence policies for the course, including academic consequences of absences. A student who is absent because of participation in University-approved activities, such as field trips and extracurricular events, will be permitted to make up the work missed during the absences.

Changing or Declaring Majors

A student declaring or changing a major or concentration must make the request through Owl Express, Student Records, which will be routed to the academic department applicable to the new major. The updated major will appear on the Academic Transcript in Owl Express after the academic department has approved the change. Changing a major may require courses beyond those required for the completion of the original program. Each student should declare a major, as soon as possible, so that an academic advisor can be assigned to help the student expedite progress toward a degree and prepare for a career.

Academic Policies Grading Policies

Grade Reports

Official grade reports are available on the web through Owl Express. All grades reflected are those submitted by faculty at the time of posting. Grade reports, in addition to the official grades for that semester, contain a term grade point average (Term GPA), an institutional GPA, and a cumulative GPA.

Grading System

Issuance of grades and formulation of individual attendance policies are the prerogative of the instructor. The course instructor must make feedback available to each student about that student's academic progress in the course prior to the last published day to withdraw without academic penalty. The Board of Regents (BOR) of the University System of Georgia (USG) Policy Manual, Section 3.5, states grades are expected to conform to those listed below.

The following are the final grades included in the determination of the scholastic grade point average.

Final Grades	Quality Points per Credit Hour*
A- Excellent	4.00
B- Good	3.00
C- Satisfactory	2.00
D- Passing	1.00
F- Failure	0.00
WF- Withdrew Failing	0.00

* Quality points are not awarded in learning support courses. These courses give institutional credit only, not graduation credit.

Other Grades

I: denotes an incomplete grade for the course. An incomplete grade may be awarded only when the student was doing satisfactory work prior to the last two weeks of the semester but for nonacademic reasons beyond the student's control, was unable to meet the full requirements of the course.

- A grade of "I" must be removed by completing the course requirements within one calendar year from the end of the semester in which the "I" was originally assigned. In addition, should the student enroll in classes at KSU during the calendar year, the grade of "I" must be removed by the end of the first semester of enrollment during that calendar year.
- Upon completion of the course requirements within the specified time limits, a final grade will be assigned based on the student's total performance.
- If the course requirements are not completed within the specified time limits, the "I" will be changed to an "F" for a course that awards grades of "A", "B", "C", "D", or "F" and the student's cumulative and institutional GPAs will be recalculated accordingly, or the "I" will be changed to a "U" for a course which awards a grade of "S" or "U." An incomplete grade cannot be removed by reenrolling in the course.

IP: indicates that credit has not been given in a course that requires a continuation of work beyond the term for which the student enrolled in the course. This symbol cannot be substituted for an "I."

K: indicates credit awarded by examination including, but not limited to, the following:

- Advanced Placement (AP)
- College Level Examination Program (CLEP)
- International Baccalaureate (IB)
- DANTES Subject Standardized Tests (DSST)
- Foreign Language Achievement Testing Service (FLATS)
- Departmental Course Exams for Advanced Standing

- Prior Learning Assessment (portfolio review)
- Military Credit

NR: indicates no grade was reported. The grade will be changed to the appropriate grade once determined.

NA: Never Attended (for attendance verification). The grade will be changed to the appropriate withdrawal grade.

S: indicates satisfactory completion of a credit-bearing course and is not included in the calculation of the grade point average. The use of this grade is approved for thesis hours, student teaching, clinical practicum, and internship. It also indicates satisfactory completion of certain credit laboratory-type courses.

U: indicates unsatisfactory completion of a credit-bearing course and is not included in the calculation of the grade point average. The use of this grade is approved for thesis hours, student teaching, clinical practicum, and internship. It also indicates unsatisfactory completion of certain credit laboratory-type courses.

V: indicates the student was given permission to audit the course. It is not included in the calculation of the grade point average. A student may not transfer from audit to credit status or vice versa. The use of this grade is approved for cooperative (COOP) courses.

W: indicates the student was permitted to withdraw from the course without penalty. A course in which a grade of "W" has been assigned will not be included in the calculation of the student's grade point average.

WF: indicates the student was permitted to withdraw from a course with the approval of the Registrar after the withdrawal date listed in the Semester Schedule of Classes. The grade of "WF" is counted as an "F" in the calculation of the student's grade point average.

WM: indicates a student was permitted to withdraw without penalty at any time during the term based on a military service refund, as defined by BOR Policy Manual, Section 7.3.5.3.

Directed Study

The following institutional regulations apply to directed study. Additional departmental requirements may exist.

General restrictions:

- Content in the directed study must not substantially overlap an existing course in the curriculum.
- A student may not enroll in more than three semester credit hours of directed study coursework per semester.
- A maximum of ten semester hours of directed study may be used to satisfy degree requirements with a maximum of three hours used as related studies electives and a maximum of three hours used as free electives. The department shall determine the maximum number of hours allowed within the major.

- A student must have an overall institutional GPA of at least 3.0 and a cumulative GPA in the major of at least 3.0 in order to be eligible for a directed study

Any student wishing to do a directed study must obtain approval from the department and complete a Directed Study request.

Special Topics

Special topics courses are created on a temporary basis to allow students to engage with specific issues within a field of study that do not currently align with existing approved courses, or to evaluate demand for a new course or area of study. Special topics courses are individually designed by the instructor for a specific semester.

The following institutional regulations apply to special topic courses. Additional departmental requirements may exist.

- Content in the special topic course must not substantially overlap an existing course in the curriculum.
- Special topics courses cannot be required in a degree, concentration, minor, or certificate program because of their temporary nature, but may be included in a list of electives for any program.
- No course may be offered more than three times using a Special Topics course number/and or topic. If after being taught, the course can go through the curriculum process to be approved as a new course.

Note: Special Topics courses are temporary; they are not ongoing courses with variable topics. Variable topics courses offer different content in different semesters and have undergone curricular approval.

Cooperative Education and Internships

The cooperative education (co-op) and internship courses offer participating students work experience relevant to their majors. Most employers want graduates with practical experience and often prefer to hire those who have worked with them and others through internships or co-ops. For information about co-op and internship opportunities, contact the Department of Career Planning and Development or the corresponding academic department. For information about the applicability of co-op and internship courses to a particular major, contact the corresponding academic advisor.

S/U grades will be assigned for co-op classes. One exception is COOP 2000, which is a 12-credit hour cooperative education course taken as an audit, where a grade of 'V' is assigned.

The Internship grade structure depends on the academic department involved.

Grade Point Average (GPA)

Kennesaw State University uses a 4.00 grade point average (GPA) system, calculated to and truncated at three significant digits. The GPA is calculated by dividing the total quality points earned by the total number of credit hours for which grades were assigned, excluding courses in learning support (0998, 0999).

Term GPA

Kennesaw State University calculates a term grade point average (Term GPA or Semester GPA) for courses attempted each semester.

Institutional GPA

Kennesaw State University calculates an institutional GPA that is used as the primary, overall GPA. Transfer credit/grades will not be used in calculating the institutional GPA. The institutional GPA for the applicable term will be used to determine semester honors and academic standing at the end of the term. This GPA is adjusted for course repeats.

Cumulative GPA

Kennesaw State University calculates a cumulative GPA by dividing the total number of credit hours in which a grade of "A", "B", "C", "D", "F", or "WF" was earned into the number of quality points earned for those hours. Institutional credit, such as credit for learning support courses, will not be included in this GPA.

Grade Changes

Errors in grades must be reported to the Office of the Registrar immediately. In general, no grade changes will be made after the end of the next semester after the grade was assigned, except with the approval of the Academic Standing Committee. In general, the Academic Standing Committee, as described in University Handbook, Section 3.1.2, will not consider requests for grade changes beyond one year from the end of the semester in which the grade was assigned. A petition for a grade change will not be accepted after the date of graduation.

Grade Appeals

A student's rights to grade appeals are defined in the University catalogs. Each faculty member must specify the grading policy in the syllabus at the beginning of the course. The faculty member may change the grading policy for cause after that time but must do so uniformly with ample notification to students.

The grading policy should be quite specific and should be distributed to each class in written form. Some departments may also require faculty members to file grading policy statements in the departmental office. Because the student can submit a grade appeal to the Department Chair within 20 business days after the first day of classes of the next academic term after the academic term in which the final grade was awarded to the student (see Grade Appeals Procedure, section B), it is strongly recommended that instructors retain any student papers, tests, projects, or other materials not returned to the student for 70 days after the end of a semester or if an appeal is filed until the appeal is resolved.

Grade Appeal Procedure

Kennesaw State University is committed to treating students fairly in the grading process. A student may appeal a final grade awarded for a course. Interim grades or grades on specific assignments are not appealable. An appeal must be based on an allegation that the faculty member has violated the stated grading policy or/and that the grade was a result of discrimination or retaliation. The student has the burden of proving these allegations. All formal appeals under these procedures will be based only on the written record.

Informal

- The student is encouraged to discuss concerns and disputes over final course grades with the faculty member, prior to filing a formal grade appeal, to understand the basis of the grade. The faculty member is encouraged to be available to the student to discuss grades so that, if possible, grade disputes can be resolved informally.

Formal

- In situations where such informal resolution does not occur or is not successful, the student may appeal the final course grade to the Department Chair. The appeal must be in writing and describe the precise basis for the appeal. Any pertinent information must be submitted with the appeal in order to be considered in this or subsequent appeals. The appeal must be submitted within 20 business days after the first day of classes of the next academic term (fall, spring, summer) after the academic term in which the final grade was awarded to the student. The Chair will invite the faculty member who assigned the appealed grade to provide a written response to the student's appeal statement. The Department Chair (or the Chair's designee) will review the allegations and conduct any additional fact finding as needed and will provide a decision in writing to the student, within 20 business days of the receipt of the complaint in the Department if there is no allegation of discrimination or retaliation that impacted the grade. The Chair's written decision will specifically address the relevant issues raised by the student.
 - If the student alleges that the grade was a result of discrimination or retaliation, the following procedures will be followed. The Chair will consult with the Office of Institutional Equity (OIE) if there is an allegation that discrimination or retaliation based on status in a protected class has an impact on the grade. Please see <http://equity.kennesaw.edu/titleix/non-discrimination.php> for the University's Non-Discrimination Statement. The Director of Institutional Equity or designee will review the information provided by the Chair to determine jurisdiction, routing, and whether an investigation is warranted, or if more information is needed. If the OIE determines that an investigation is warranted, the OIE will investigate. The general time frame for the investigation is 60 business days, absent any special circumstances. The OIE will issue an investigation report to the Chair. The Chair will use the OIE investigation report to make the grade appeal decision and communicate the decision to the student within 20 business days after receipt of the OIE investigation report. The Chair's written decision will specifically address the relevant issues raised by the student.
- The student may appeal the Department Chair's decision within 20 business days of being notified of the Chair's decision. Such appeal will be made, in writing, to the Dean of the College in which the Department is located. At the Dean's discretion, the Dean can appoint an advisory

panel, consisting of two (2) faculty members from outside the department where the grade was awarded and one (1) student to review the written documentation and make a recommendation to the Dean. The advisory panel may invite the student and the faculty member who awarded the grade to meet with the panel to share each party's position on the grade dispute. The panel will provide a written recommendation to the Dean within ten (10) business days of the receipt of the appeal. The Dean will issue a decision to the student, in writing, within ten (10) business days of the receipt of the report from the advisory panel or within twenty (20) business days of the receipt of the written complaint from the student if no panel was appointed.

- The student may appeal the Dean's decision to the Provost, in writing, within twenty (20) business days of being notified of the Dean's decision. [However, if it is a graduate course, the student will direct this written appeal to the Graduate Dean, and the Graduate Dean will issue a decision to the student, in writing, within twenty (20) business days of receiving the appeal. Within twenty (20) days of that decision, the student may then appeal to the Provost as described in this section]. The Provost will issue a decision to the student in writing within twenty (20) business days of receiving the appeal.
- The Provost's decision is final, and decisions regarding grades may not be appealed to the Board of Regents per BOR Policy Manual, Section 6.26.

Nothing in this grade appeals process prohibits the parties from settling this matter at any stage. However, any attempt to settle the matter through mediation does not affect the deadlines described for this grade appeals process.

Semester Honors

Dean's List

An undergraduate student is eligible for the Dean's list at the end of a term if the student was enrolled in at least 9 credit hours awarding A, B, C, D, F, or WF grades for that term and earned a term grade point average of at least 3.5 (but less than 4.0).

President's List

An undergraduate student is eligible for the President's list at the end of a term if the student was enrolled in at least 9 credit hours awarding A, B, C, D, F, or WF grades for that term and earned a term grade point average of 4.0.

Academic Standing

Good Standing

An undergraduate student is in good standing when the student's institutional GPA is 2.00 or higher.

Academic Probation

A student will be placed on academic probation at the end of any term for which the student's institutional grade point average is below 2.00. A student may enroll in no more than 13 credit hours while on academic probation.

Academic Dismissal

A student on academic probation will be dismissed if:

- the student does not earn a 2.00 or higher term grade point average or
- the student is on academic probation for three (3) consecutive semesters.

An academically dismissed student is not in good academic standing at KSU and is not eligible for immediate readmission.

Readmission to the University after Dismissal

- After the first academic dismissal, a student may be considered for readmission after an absence of one semester. A dismissed student must apply for readmission through the Office of Undergraduate Admissions prior to posted deadlines.
- After the second academic dismissal, a student may be considered for readmission after an absence of one calendar year from the end of the semester for which the second dismissal occurred. A dismissed student must apply for readmission through the Office of Undergraduate Admissions prior to posted deadlines.
- After the third academic dismissal, the student will no longer be eligible for readmission.

Any exceptions to this policy must be appealed and approved by the Academic Standing Committee per BOR Policy Manual, Section 6.26. Information on academic appeals is available through the Office of the Registrar website.

Repeated Courses

When an undergraduate course completed at Kennesaw State University is repeated at KSU with a higher grade, the highest grade received will be counted in the institutional GPA calculations. The student's permanent record and cumulative grade point average will retain all course attempts and grades.

If a student completed a course at KSU then earned a higher grade repeating the same course at another institution during or after Fall Semester 2015, the KSU course grade will be excluded from the student's institutional GPA the next semester the student is enrolled at KSU.

Re-enrollment

After attempting an undergraduate course for the second time, including withdrawals (W or WF) but excluding courses noted in the Catalog as repeatable for credit, a student will not be allowed to re-enroll in the course without the permission of the Department Chair or designee. It is the

sole discretion of the Department Chair or designee to decide if a student will be allowed to enroll in a class that the student previously attempted twice.

Academic Renewal

An undergraduate student who was readmitted to KSU after a period of absence of three calendar years or longer is eligible for Academic Renewal. The institutional GPA may be restarted by petitioning the Office of the Registrar for an Academic Renewal, allowing a degree-seeking student who experienced academic difficulty to make a fresh start.

The institutional GPA is used to determine academic standing (probation or dismissal), eligibility for program admission, and with some restrictions, eligibility for graduation and honors. Courses completed before Academic Renewal was granted do not count toward residency requirements for graduation or honors.

A student requesting Academic Renewal must contact the Office of the Registrar to complete the Academic Renewal Request Form. The request must be submitted within one calendar year of the first day of classes of the student's first semester of reenrollment after the absence of three or more calendar years. A student can be granted Academic Renewal status only one time within the USG system. Once granted, the petition for Academic Renewal cannot be rescinded.

Academic Renewal for Second Degree

A student's institutional GPA may be restarted at the time of reenrollment for a second KSU undergraduate degree. A student requesting Academic Renewal for a Second Degree must contact the Office of the Registrar to complete the Academic Renewal for a Second Degree Request Form. The request must be submitted within one calendar year of the first day of classes of the student's first semester of reenrollment after the absence of three or more calendar years. A student can be granted Academic Renewal for Second Degree status only one time.

Academic Policies Graduation Policies and Procedures

Petition to Graduate

Undergraduate students should submit a formal petition for the degree through the online petition process no later than the published deadline, and pay the graduation fee. Login to Owl Express; select Registration and Student Records tab; select Petition to Graduate. Once submitted, the graduation petition process will initiate a petition fee assessment and a review of the student's academic record to determine eligibility toward the degree. Expect up to eight weeks for a completed degree audit. Petition status changes are view-able at the Display Petition Status link in Owl Express, and the student will be prompted by email to view status changes in addition to essential audit results and graduation policies. Students may request in absentia status by writing to the Registrar prior to the graduation exercises.

The Office of the Registrar will apply the petition and assess the fee to the student account for students with more than 90 degree applicable credit hours who have not petitioned and are deemed

on track to graduate. Students will be notified of commencement exercises. Upon degree completion, the degree will be awarded.

Graduation Petition Acceptance Petition Deadline

Graduation	Petition Acceptance	Petition Deadline
Summer Semester	January 1	May 1
Fall Semester	March 1	August 22
Spring Semester	October 1	February 1

It should be noted that program and course requirements and university policies are subject to change without advanced notice. Changes in policy and requirements enacted by the Board of Regents take precedence over existing university policies and requirements. The University will make reasonable efforts to accommodate students affected by such changes, but reserves the right to determine where and to what extent it will grant exceptions to new policies and requirements. In cases where courses are deleted, students must substitute courses deemed acceptable by the faculty or chair responsible for the degree program in question.

Graduated and Re-enrollment Requirement

Graduated students who wish to continue enrollment after earning a degree must complete a readmission application to update their student status.

Students with a declared dual degree or double major prior to completion of the first degree may continue to enroll in classes to complete the second degree or major. Contact the Office of the Registrar to have the second degree or major declared.

Other Requirements

- Satisfactorily complete any grades of I (Incomplete), IP (In Progress), or NR (Not Reported) grades.
- Satisfactorily complete a minimum of 39 semester hours at the 3000-4000 level, including at least 21 semester hours at the 3000-4000 level in the major field of study in residency.
- Satisfactorily complete all requirements for the degree no later than the last day of finals in the term in which the degree is to be awarded. Students who fail to meet this deadline will not receive their degree until the next semester.

In all instances, meeting the requirements for graduation is the responsibility of the student.

Commencement Ceremony

- Students are only permitted to participate in the commencement ceremony for the semester that all degree requirements will be completed. Students are not permitted to walk in an earlier semester.
- Students who have petitioned for multiple degrees that fall into the same ceremony may only walk for one degree.
- Participation in a commencement ceremony does not constitute earning a degree, and the conferred date on a diploma will coincide with the semester that the degree requirements are completed.
- Students are invited to take part in commencement, but participating is not required in order to have a degree awarded.
- Students who petition after the established deadline are not guaranteed to be represented in the commencement program or receive ticket allotment for the ceremony.

Catalog for Graduation Evaluation

Students should meet with their academic advisor or departmental representative to determine the appropriate catalog to be used for academic advisement and for evaluation of graduation requirements. Catalog selection applies only to the course requirements of that catalog; all other academic procedures and graduation requirements must be satisfied according to regulations in effect at the time of graduation.

Students may elect to be evaluated for graduation from any catalog in effect during the time they have been enrolled, provided that enrollment has been continuous, and the student does not change majors. If students change majors, they will be evaluated for graduation using the catalog in effect at the time of the change, or any subsequent catalog as long as students are continuously enrolled.

Students readmitted will be evaluated for graduation from the catalog in effect at the time of readmission or reinstatement, or any catalog in effect during subsequent periods of continuous enrollment. Students may not elect a catalog for a discontinued/deactivated degree program.

Age of Credit

Courses, in general, have no limit imposed on the age of credit. However, each department may elect to restrict the age of courses applied to a specific degree program.

Deficiencies

Students who have received a grade of "I", "IP", "F" or "WF" in a course have a deficiency in the course. Students whose final grade is "F" or "WF" have a failure in that course. Students should repeat and pass the course in residence at Kennesaw State University before credit will be allowed. Repeating the course does not remove the "F" or "WF" from the total cumulative average.

Duplicate Courses or Dual Credit

If students have two courses that are so similar as to be considered the same, they may only use one to meet program of study degree requirements. Only one course may be counted as hours earned, and only one course may be used for graduation purposes.

Graduation Requirements:

To be eligible to receive a baccalaureate degree, a student must meet the following requirements:

- Each undergraduate student must have a minimum institutional Grade Point Average (GPA) of 2.0 for graduation. Specific degree programs may have higher requirements.
- Complete all required General Education courses; ENGL 1101 AND ENGL 1102 require a grade of "C" or higher (or equivalents, if a transfer student).
- Complete the chosen program of study with the grade of "C" or better in all courses listed under the major, including those listed as Lower Division Major Requirements.
- Complete a minimum of 120 semester hours. Specific degree programs may require additional hours. A minimum institutional grade point average of 2.0 on all course work attempted at KSU is required. No course may be counted more than one time in meeting the total credit hours required for the degree.
- Have at least a 2.0 institutional grade point average with at least 30 hours of credit for KSU coursework not excluded because of repeated courses or Academic Renewal status. If students have fewer than 30 earned hours of credit for non-excluded KSU coursework, they must have a 2.0 cumulative grade point average.
- Earn at least 25 percent of the credit hours required for a baccalaureate degree through instruction offered by Kennesaw State.

Degree Program Hours

Baccalaureate degrees consist of a minimum of 120 semester hours. Exceptions to the maximum degree length requirements have been made with the approval of the Board of Regents. A baccalaureate degree program requires at least 21 semester hours of upper-division courses in the major field to be completed at KSU, and at least 39 semester hours of upper division work overall are required for the degree.

State Legislative Requirements

Undergraduate students cannot graduate or receive a degree without successfully completing course work or passing a satisfactory examination on the history of the United States and the history of Georgia and the provisions and principles of the United States and the Constitution of Georgia.

KSU degree-seeking students satisfy these requirements by attaining a grade of "D" or better in the course POLS 1101 along with the course HIST 2111 or HIST 2112.

Transfer credit may also satisfy all the requirements if:

- The equivalent course work to the above courses is from a USG institution
- The course(s) differs from the above courses, but it is established that it meets the legislative requirements of the particular USG institution
- The equivalent course work to the above courses has been approved as satisfactory for legislative requirement purposes from TCSG institutions or other regionally accredited post-secondary institutions in the State of Georgia

Transfer credit equivalent to the above courses from outside the State of Georgia or from credit-by-exam mechanisms will have history of Georgia and Constitution of Georgia requirements unmet. Degree-seeking students in these cases will have to take the KSU course(s) or pass the relevant Georgia History and/or Georgia Constitution exemption examinations offered through the KSU Testing Center. Students wishing to take the test may email the KSU Testing Center at ksutesting@kennesaw.edu.

Core Curriculum Requirement

Kennesaw State University will develop a policy to comply with BOR Academic Affairs Handbook policy 2.4.4, which requires that new students complete AREA A prior to reaching a specified number of hours.

ENGL 1101 and 1102: The Campus Writing Requirement

At Kennesaw State University ENGL 1101 and ENGL 1102 (English Composition I & II) are required for all undergraduate degrees. A grade of "C" or better is required for ENGL 1101 and ENGL 1102.

Residency Requirements

Students must earn at least 25 percent of the credit hours required for a baccalaureate degree, which includes at least 21 hours of upper-division courses (Coles College of Business requires 33 hours), through instruction offered by Kennesaw State. Credit hours earned through instruction offered by KSU does not include coursework transferred from other institutions, prior learning assessments, credit by examination (e.g., CLEP, AP, IB), or credits earned through a consortium that did not originate from KSU (i.e., cross registration).

Graduation with Honors

An institutional grade point average of at least 3.5 is required for students to graduate cum laude, 3.7 to graduate magna cum laude and 3.9 to graduate summa cum laude from a baccalaureate program. Graduation with honors requires that students earn at least 30 semester credit hours in residence at Kennesaw State University for the bachelor's degree. Double Owl courses will be included in the 30 earned semester hours required for honors.

To receive honors at graduation, "second degree" and Academic Renewal students must have at least 30 earned hours of credit at KSU after the "second degree" or Academic Renewal status was

granted. In addition, for honors, students who have repeated courses must have at least 30 earned hours of credit at KSU after the hours for the repeated courses have been excluded

Double Majors

Double major consists of two separate majors in the same baccalaureate degree (for example, Bachelor of Science with separate majors in Mathematics and Physics). One diploma will be issued for the degree.

Students are eligible for a double major when the following conditions are met:

- All of the requirements for two KSU majors are satisfied, including all residency and institutional requirements for each major; and
- KSU courses taken to meet residency and institutional requirements of one major may be counted toward the residency and institutional requirements for the second major; and
- The second major must be completed at the time of graduation with the first major.

Whether in one degree or two, students may not graduate with more than two majors.

Dual Degree

A dual degree consists of two separate majors leading to different baccalaureate degrees (for example, Bachelor of Arts degree with a major in English and Bachelor of Science degree with a major in Mathematics). Two diplomas will be issued.

Students are eligible for a dual degree when the following conditions are met:

- All of the requirements for two KSU degree programs are satisfied, including all residency and institutional requirements for each degree program; and
- KSU courses taken to meet residency and institutional requirements for one degree may be counted toward the residency and institutional requirements of the second degree; and
- The second degree must be completed at the time of graduation with the first degree.

Second Bachelor's Degrees

A second bachelor's degree consists of students who have previously earned or are currently pursuing a baccalaureate degree from an institution regionally accredited by the Commission on Colleges and are also enrolling and obtaining a second baccalaureate at KSU. The second degree can be the same as the first degree (for example, Bachelor of Science in Mathematics - first degree, and Bachelor of Science in Physics - second degree) or the second degree can be different from the first degree (for example, Bachelor of Arts in English- first degree, and Bachelor of Science in Mathematics- second degree).

The second baccalaureate degree requires satisfying the following requirements:

- Meet all major requirements (including prerequisite courses) listed for the chosen program of study.
- Complete the Georgia Legislative History and Constitution requirements.

- Earn at least 25 percent of the credit hours, through instruction offered by Kennesaw State. If the first baccalaureate degree was earned at KSU, these hours must be in excess of any hours used toward the first baccalaureate degree, unless the first degree was received within five years of receiving the second degree.
- Complete at least 21 semester hours of upper-division coursework in residence beyond the courses required for the student's first degree.
- If the first degree is earned at Kennesaw State University, a student may seek a second baccalaureate degree only if the second major is different from the first major.
- Complete (for students with majors in the Bagwell College of Education) the lower division major requirement courses in Education.

Certificate Programs

Stand-Alone Certificate Programs

- Students admitted to a stand-alone certificate program may apply the courses completed for the stand-alone certificate toward a degree program if they are accepted into a degree program.
- Students admitted to a degree program may be awarded a related stand-alone certificate based on completion of the courses in the certificate program provided they also apply for the stand-alone certificate.
- Students who wish to apply for a stand-alone certificate should contact their academic department or the Office of the Registrar for instructions on how to proceed.
- The Office of the Registrar will issue the stand-alone certificate upon completion of the requirements.

Embedded Certificates

Embedded certificates are those certificates that are only awarded to a student upon completion of a degree and are a self-contained set of courses embedded in a major or stand-alone degree. Embedded certificates are not listed separately on the USG authorized Degrees and Majors inventory list.

The Office of the Registrar will issue the embedded certificate upon completion of the degree requirements, which include the requirements for the embedded certificate. The embedded certificate fee will then be charged to the student account.

Minor Requirements

- A minor program is a prescribed area of academic study consisting of 15-18 semester hours.
- At least nine of the required hours must be at the upper-division level, i.e. courses numbered 3000 or above.
- At least six credit hours of the upper division credit hours must be earned in residence at KSU.
- The prescribed courses for a minor may be taken from one or more academic disciplines. Courses taken in Core Area F (lower division major requirements) may be counted as coursework in the minor.

- Courses taken to satisfy Core Areas A through E (general education) may NOT be counted as coursework in the minor.
- Students must earn a grade of at least "C" in all course work applicable to a formal minor.
- When a student's major and minor require the same courses, there is no limit on duplicate credit. 100% sharing between a major and minor is permitted. A course may satisfy the requirements of the major, a first minor and a second minor.
- The minor must be declared and completed before, or at the same time as degree completion.

It is highly recommended that if a student plans to complete a minor, the student consults an advisor to submit the minor declaration three semesters prior to degree completion.

In order to graduate with a minor that will be noted on students' permanent record, students must declare the minor through Owl Express. Additional minors must be declared through the Office of the Registrar using a completed and approved minor form posted on the Registrar Forms website <https://registrar.kennesaw.edu/forms.php>

Academic Policies Other Policies

Learning Support

Freshmen and Transfer Freshmen Applicants who do not meet KSU's Freshman Index Cut-Score, Non-Traditional (Adult Learner) students, and identified Talented Students who are admitted to KSU with Learning Support requirements will be served through designated KSU/GHC Enrollment Pathways. The Office of the Registrar will facilitate enrollment to Learning Support courses for these student populations.

Grades received in learning support courses (0989, 00998, 0999) are not included in the calculation of a student's grade point average (Institutional or cumulative). Failing grades in these courses will be considered for the purpose of determining satisfactory progress.

Learning Support Attempts and Exit

1. An attempt is defined as an institutional credit course in which a student receives any grade or symbol except "W" or "WM."
2. If students do not complete requirements for Foundations-level mathematics in two attempts, they will be suspended for a calendar year. Suspended students may be considered for readmission before the end of one year if they can provide evidence that they have taken measures to improve their skills.
3. Students who have been suspended from the institution without completing Learning Support requirements may complete their Learning Support requirements and additional collegiate-level work at SACSCOC-accredited TCSG institutions during the year of suspension.
4. There are no limits on attempts in corequisite Learning Support courses. However, students who have accumulated a maximum of 30 semester hours of college-level credit at KSU and have not successfully completed required Learning Support courses may enroll only in Learning Support courses until requirements are successfully completed. Students with transfer credit or credit earned in a certificate or prior degree program who are required to take

Learning Support courses for their current degree objectives may earn up to 30 additional hours of college-level credit. After earning the additional hours, such students may enroll in Learning Support courses only.

5. Students will exit Learning Support by successfully passing (as defined by the Institution) the corresponding Area A collegiate-level course.

Students engaged in degree-credit courses before the completion of their learning support requirements will be subject to the requirements of satisfactory scholarship in both types of courses simultaneously. Once the learning support requirements are met, students academic standing will be judged solely on the basis of their Institutional grade point average for degree credit courses.

Mathematics Placement Policy

Students seeking to enroll in the following courses without taking pre-requisite courses may do so under the following conditions:

MATH 1113

- High school GPA ≥ 2.8 *AND*
- ACT math score ≥ 23 or SAT math score ≥ 570 (540 if taken prior to March 2016)

OR

- By Placement Exam

MATH 1190

- High school GPA ≥ 3.2 *AND*
- ACT math score ≥ 26 or SAT math score ≥ 620 (600 if taken prior to March 2016)

OR

- By Placement Exam

MATH 1160

- High school GPA ≥ 3.2 *AND*
- ACT math score ≥ 26 or SAT math score ≥ 620 (600 if taken prior to March 2016)

OR

- By Placement Exam

Faculty Curriculum Development Policies

Policy on Course Cross-Leveling

A cross-leveled course is a course that is offered by departments across numbers and/or level. The two courses that are cross-leveled are owned by the same department. It must have documentation with the Office of the Registrar and a proper description in the course catalog. (Requests for policy exceptions may be submitted to UPCC and/or GPCC.)

1. Cross-leveled courses are limited to the following two course pairs: 1) undergraduate upper division course/graduate course, and 2) graduate course/doctoral course. 9000 level special topics, directed study, thesis, internships, practica, and dissertation courses may not be cross-leveled.
2. Cross-leveled courses must be supported by a rationale for combining students of different levels.
3. Cross-leveled courses must ensure there is a clear distinction between the requirements of undergraduate and graduate students or graduate and doctoral students, with more advanced course work for the higher level degree program. This will be demonstrated in two different syllabi that include, but are not limited to, different objectives, assessments and/or outcomes.
4. Cross-leveled courses at the graduate level must be taught by faculty with graduate faculty status.
5. Sections of cross-leveled courses must share the same modality.

Zero-credit Hour Policy

Zero-credit courses allow students the opportunity to engage in innovative experiences beyond designated credit hours of a program. Programs may develop zero-credit courses for internships, participation in research, experiential learning, career preparation, international education, teaching assistantships, or other enhanced learning experiences for a major. Zero-credit courses may serve as pre-requisites for other courses.

Courses offered for zero-credits must be approved through the regular KSU curriculum approval process. Zero-credit courses are offered for no credit and do not incur tuition or university fee charges; however, course fees may apply. Zero-credit courses have satisfactory/unsatisfactory grading and will be reflected on a student's transcript but will not be included in a student's GPA. These courses must have an instructor of record and a syllabus with all required elements. Courses developed for zero-credit must not exceed 45 experiential hours or 15 contact hours and must recognize faculty workload through teaching or service. Programs must limit the number of zero-credit courses required to prevent overburdening of the students and the faculty/staff. These courses are not required to adhere to the curricular calendar and may be offered at any point during the year.

Zero-credit courses already in the catalog are exempt from this policy. As with all courses, if a course change is pursued, it is reconsidered under current policies. Exceptions to this policy will be considered if a justification is included in the proposal for curriculum committee review.

General Education Core Curriculum Requirements

About the General Education Program

Kennesaw State University's General Education program offers a comprehensive series of interrelated courses in the liberal arts and sciences for all KSU students. Whereas the major program contributes depth within a chosen specialization, the General Education Core Curriculum Areas A-E provide a breadth of understanding within a variety of disciplines. Together, the General Education Core Curriculum and the major degree program offer students the knowledge, skills, and perspectives to become informed and engaged citizens living in a diverse, global community.

LEARNING OUTCOMES

Students will encounter the General Education learning outcomes over the course of their General Education Core Curriculum in Areas A-E.

- **Written Communication:** Students will write & communicate at a college level in various modes, media, and/or rhetorical contexts.
- **Reading Comprehension:** Students will demonstrate an ability to comprehend, analyze, & interpret texts in various modes, genres, media, and/or contexts.
- **Quantitative Learning:** Students will demonstrate the ability to explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables) and/or convert information into mathematical forms at a level appropriate for the complexity of problems in a college-level course.
- **Critical Thinking:** Students will evaluate and synthesize information to support ideas and perspectives.
- **Literature:** Students will include multicultural, social, or historical contexts in their interpretation of literary work.
- **Global Perspectives:** Students will analyze creative works from multiple international cultures in relation to the historical, political, economic, sociocultural, aesthetic, or personal contexts in which those works emerged.
- **Applied Math:** Students will demonstrate an ability to effectively apply symbolic representations to model and solve problems.
- **Natural Sciences:** Students will demonstrate an understanding of college-level scientific principles, theories, and laws, and apply them to solve problems and explore natural phenomena.
- **U.S. Perspectives:** Students will demonstrate a broad understanding of history, political systems, or culture of the U.S.
- **Social Sciences:** Students analyze the complexity of how historical, economic, or political relationships develop, persist, or change.

General Education Core Requirements at KSU

Throughout the university system, the core curriculum consists of 42 semester hours of which a minimum of 42 are in general education.

Area A1: Communication - (6 Credit Hours)

- ENGL 1101:Composition I
- ENGL 1102:Composition II

Area A2: Quantitative - (3 to 4 Credit Hours)

Select one from the following:

- MATH 1001:Quantitative Reasoning
- MATH 1101:Introduction to Mathematical Modeling
- MATH 1111:College Algebra
- MATH 1113:Precalculus
- MATH 1190:Calculus I
- STAT 1401:Elementary Statistics

Note: *Science Majors: Students must take MATH 1113 or higher Engineering Majors: Students must take MATH 1190*

Area B: Institutional Option - Critical Thinking - (5 Credit Hours)

B1: Contemporary Economic Issues (2 Credit Hours)

- ECON 1000:Contemporary Economic Issues

B2: Cultural Perspectives (3 Credit Hours)

Select one from the following:

- AADS 1102:Issues in African and African Diaspora Studies
- AMST 1102:American Identities
- ASIA 1102:Introduction to Asian Cultures
- COM 1100:Human Communication
- FL 1002:Introduction to Foreign Language and Culture II (Any of the following courses can be taken to satisfy FL 1002: FL 1002, CHIN 1002, FREN 1002, GRMN 1002, ITAL 1002, JPN 1002, KOR 1002, LATN 1002, PORT 1002, RUSS 1002, SPAN 1002. Some sections of FL 1002 may include Arabic, Hebrew, Hindi, etc. which can also be taken.)
- GWST 1102:Love and Sex
- LALS 1102:Understanding Latin America
- LDRS 2300:Leadership & Intercultural Competence
- PAX 1102:Understanding Peace and Conflict
- PERS 2700:Perspectives on the World of Work
- POLS 2401:Global Issues
- RELS 1102:Introduction to Religion

Area C: Humanities, Fine Arts, and Ethics - (6 Credit Hours)

C1: Literature of the World

Select one from the following:

- ENGL 2110:World Literature
- ENGL 2120:British Literature
- ENGL 2130:American Literature
- ENGL 2300:African-American Literature
- PHIL 2010:Introduction to Philosophy

C2: Arts and Culture of the World

Select one from the following:

- ART 1107:Art in Society
- DANC 1107:Dance in Society
- MUSI 1107:Music in Society
- TPS 1107:Theatre in Society

Area D: Science, Mathematics, and Technology - (10 to 12 Credit Hours)

D1: Applied Math (3 to 4 Credit Hours)

Select one from the following:

- STAT 1401:Elementary Statistics
- DATA 1501:Introduction to Data Science
- MATH 1113:Precalculus
- MATH 1160:Elementary Applied Calculus
- MATH 1190:Calculus I
- MATH 2202:Calculus II

D2: Science Process (7 to 8 Credit Hours)

Select from the following:

- SCI 1101:Science, Society, and the Environment I
- SCI 1102:Science, Society and the Environment II
- GEOG 1112:Weather and Climate
- GEOG 1113:Introduction to Landforms
- CHEM 1151:Survey of Chemistry I
- CHEM 1151L:Survey of Chemistry Laboratory I
- CHEM 1152:Survey of Chemistry II
- CHEM 1152L:Survey of Chemistry Laboratory II
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I

- CHEM 1212:Principles of Chemistry II
- CHEM 1212L:Principles of Chemistry Laboratory II
- PHYS 1111:Introductory Physics I
- PHYS 1111L:Introductory Physics Laboratory I
- PHYS 1112:Introductory Physics II
- PHYS 1112L:Introductory Physics Laboratory II
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II
- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
- BIOL 1108:Biological Principles II
- BIOL 1108L:Biological Principles II Laboratory

Note:

D1: Science Majors: Students must take MATH 1190 or higher **Engineering Majors:** Students must take MATH 2202

D2: Science and Engineering Majors: Students must take two four-hour laboratory sciences, Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

* Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Health and Nursing Majors: Students must take a two-semester laboratory sequence in either physics, chemistry, or biology. Students can choose from CHEM 1151/L & 1152/L, CHEM 1211/L & 1212/L, PHYS 1111/L & PHYS 1112/L, or BIOL 1107/L & 1108/L. See the individual degree program requirement section for majors with these requirements. Nursing majors are recommended to take CHEM 1151/L & CHEM 1152/L.

All other majors: Take one four hour laboratory science course and one additional science course.

Area E: Social Sciences – (12 Credit Hours)

E1: U.S. Government (3 Credit Hours)

- POLS 1101:American Government

E2: U.S. History (3 Credit Hours)

Select one from the following:

- HIST 2111:United States History to 1877
- HIST 2112:United States History Since 1877

E3: World History (3 Credit Hours)

Select one from the following:

- HIST 1100:Introduction to World History
- HIST 1111:Pre-Modern World History
- HIST 1112:Modern World History

E4: Social Sciences (3 Credit Hours)

Select one from the following:

- CRJU 1101:Foundations of Criminal Justice
- GEOG 1101:Introduction to Human Geography
- PSYC 1101:Introduction to General Psychology
- SOCI 1101:Introduction to Sociology
- STS 1101:Science, Technology, and Society
- ANTH 1102:Introduction to Anthropology
- ECON 2106:Principles of Microeconomics

Area F: Lower Division Major Requirements - (18 Credit Hours)

See the individual majors for the specific requirements in this area.

Requirements for BBA Degree

Business majors should take the following courses as part of their KSU General Education requirements:

MATH 1111 College Algebra (or MATH 1113 - Precalculus)

All business majors must take MATH 1111. Students with stronger math aptitudes or backgrounds, or students considering graduate school, should take MATH 1113 and MATH 1190.

Sophomore GPA Requirement

Before a business major can be admitted to the Coles Professional Program and enroll in any upper-division business courses (3000-4000), she or he must meet the Coles Sophomore GPA Requirement. This involves earning an adjusted GPA of 3.00 or greater for the following six courses:

ACCT 2101 Principles of Accounting I

ACCT 2102 Principles of Accounting II

ECON 2105 Principles of Macroeconomics

ECON 2106 Principles of Microeconomics

ECON 2300 Business Statistics

BLAW 2200 Legal and Ethical Environment of Business

Regardless of whether the courses are taken at Kennesaw State University or at another acceptable accredited institution, the grades earned will be used to check this GPA requirement. A course may be repeated if necessary.

Courses	Civil Engineering	Computer Eng	Construction Engineering	Electrical Engineering	Environmental Engineering	Industrial & Systems Engineering	Mechanical Engineering	Mechatronics Engineering
Physics II (PHYS 2212 and PHYS 2212L)	X	X	X	X		X*	X	X
Biology I (BIOL 1107 and BIOL 1107)					X			
Calculus I (MATH 1190)	X	X	X	X	X	X	X	X
Calculus II (MATH 2202)	X	X	X	X	X	X	X	X
Differential Equations (MATH 2306)	X	X	X	X	X			X
Probability & Data Analysis (STAT 2332)		X		X				
Applications of Probability (ISYE 2600)						X		
Technical Writing (TCOM 2010)						X		

Courses	Civil Engineering	Computer Eng	Construction Engineering	Electrical Engineering	Environmental Engineering	Industrial & Systems Engineering	Mechanical Engineering	Mechatronics Engineering
C++ Programming for Engineers (CSE 1311)		X		X		X		X
MATLAB for Engineers with Applications (ME 1311)							X	
Engineering Graphics I (EDG 1211)							X	X

*(PHYS 2212 and PHYS 2212L) or (CHEM 1212 and CHEM 1212L) or (BIOL 1107 and BIOL 1107L)

Engineering Standing for Non-Engineering Majors

Non-engineering students who desire to enroll in upper-level engineering courses will need to satisfy the Engineering Standing prerequisite. A 2.7 GPA in the following courses will fulfill the requirement:

- ENGL 1101 - Composition I.
- ENGL 1102 - Composition II
- CHEM 1211 and CHEM 1211L - Chemistry I
- PHYS 2211 and PHYS 2211L - Physics I
- MATH 1190 - Calculus I
- MATH 2202 - Calculus II

12 additional credits from courses in the Southern Polytechnic College of Engineering and Engineering Technology or with prefixes CHEM, CS, CSE, IT, MATH, PHYS, or STAT.

Academy for Inclusive Learning and Social Growth

The Academy for Inclusive Learning and Social Growth offers a fully inclusive post-secondary college education and experience to students with different intellectual or developmental abilities who may not have to meet higher-education requirements for admission as a degree-seeking student. The program involves enrollment as degree seeking students in typical university courses and includes social integration, career exploration and training resulting in a Certificate of Social Growth and Development.

The KSU Academy for Inclusive Learning and Social Growth provides a university-based, post-secondary education experience for persons with different intellectual and developmental abilities. The Academy, by design, focuses on independence through an inclusive campus program - encouraging social growth and development through real-life college experiences. The programs are tuition and fee-based with housing options available on and off campus. The Academy is comprised of two certificate programs that work in conjunction. The initial program, which began in 2009, Academic, Social, and Career Enrichment (ASCE) program, is designed to provide a two-year foundational base for enhancement in an inclusive setting. This foundation program has been approved as a Comprehensive Transition Program (CTP). The Advanced Leadership and Career Development Program (ALCD), which began in 2014, is designed to assist students to enhance existing skills in the areas of career development, self-advocacy, leadership and independence, and academic exploration.

Certificate Programs:

- Academic, Social, and Career Enrichment (ASCE)
- Advanced Leadership and Career Development (ALCD)

Academic Programs

Bagwell College of Education

Baccalaureate

Early Childhood Education Birth through Kindergarten Education, B.S.

Contact Information

Website: <https://bagwell.kennesaw.edu/departments/eece/index.php>

Phone: (470) 578-6121

Program Description

Current research indicates that early childhood programs with well-prepared, highly qualified teachers have long-term positive benefits for children and the community. Based on this research and Georgia's approved certification in Birth through Kindergarten (B-K) Education, the Kennesaw State University Bagwell College of Education B-K Early Education Undergraduate Program has been developed to assist individuals who have a desire to instruct and work with infants, toddlers, preschool and kindergarten children.

Graduates of the program will be prepared to provide instruction to very young children. Graduates will also be familiar with global perspectives on early learning and teaching. The B-K Undergraduate Degree Program addresses the needs of the whole child based on national and state standards. Teacher candidates in the program may be placed in diverse field settings that will focus on (1) developmentally appropriate best practices, (2) current research on the development of infant, toddler and young children, (3) families and communities in a global setting, (4) English Language Learners, and (5) children with special learning needs.

Admissions Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or better.
- EDUC 2110* with a grade of "C" or better, a satisfactory field experience evaluation, and recommendation from the EDUC 2110 instructor. (Students with transfer credit for EDUC 2110 must provide their own Supplemental Teacher Recommendation.)
*or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessment Tests (test codes 210, 211 & 212 or combined test 710)
- Complete the Georgia Educator Ethics - Program Entry exam (360).

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 (Critical Reading and Mathematics) on test before March 1, 2016
OR 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019
OR
1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 and after
- ACT: at least 43 (English and Mathematics)
- GRE: at least 1030 (Verbal and Quantitative), OR least 297 (Verbal and Quantitative)
08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for this certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper-level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Program of Study

Birth - Kindergarten Program Required Curriculum

There are three different concentrations from which students may choose if one is focusing on Birth-Kindergarten - Traditional Certification, Non-Certification, and Montessori. All three concentrations require the same General Education curriculum and lower division (Area F) courses.

General Education Core Curriculum (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- ECE 2250:Child Development and Early Learning
- ECE 2540:Health, Wellness and the Young Child
- ECE 2590:Families, Communities and Schools: Partners in Education

Traditional Certification Concentration

This concentration prepares graduates to qualify for the Georgia Professional Standards Commission's (PSC) Birth through Kindergarten teaching certificate.

Additional Major Requirements (6 Credit Hours)

- ISCI 2001:Life and Earth Science
 - or
- ISCI 2002:Physical Science
- MATH 2008:Foundations of Numbers and Operations

Major Requirements (17 Credit Hours)

- ECE 2205:Organization and Administration of Early Childhood Programs
- ECE 3364:Children's Literature
- ECE 3510:Fostering Young Children's Learning Through Play
- ECE 3575:International Approaches to Early Care and Learning
- INED 3304:Education of Exceptional Students
- ITEC 3100:Improving Learning with Technology in Elementary Classrooms

Professional Education Requirements (37 Credit Hours)

- ECE 3313:Preschool Curriculum and Assessment

- ECE 3565:Infant/Toddler Practicum
- ECE 3570:Preschool Practicum
- ECE 3520:Infant and Toddler Curriculum and Assessment
- ECE 3530:Movement, Music and Art in Birth through Kindergarten Programs
- ECE 4515:Methods in Teaching and the Development of Teaching Language & Literacy in Birth through Kindergarten
- ECE 4525:Methods of Nurturing Second Language Acquisition
- ECE 4535:Methods of Instruction and Identification of B-5 Children with Special Needs
- ECE 4545:Methods in Math & Science in Birth through Kindergarten
- ECE 4555:Methods for Teaching Social Studies Birth through Kindergarten
- ECE 4650:Yearlong Clinical Experience I (P-5)
- ECE 4660:Yearlong Clinical Experience II (P-5)
- EDUC 4610:Introduction to the Yearlong Clinical Experience

Program Total (120 Credit Hours)

Non-Certification Concentration

This concentration prepares graduates for work in Birth - Kindergarten settings where teacher certification is not required.

Additional Major Requirements (6 Credit Hours)

- ISCI 2001:Life and Earth Science
 - or
- ISCI 2002:Physical Science
- MATH 2008:Foundations of Numbers and Operations

Major Requirements (17 Credit Hours)

- ECE 2205:Organization and Administration of Early Childhood Programs
- ECE 3364:Children's Literature
- ECE 3510:Fostering Young Children's Learning Through Play
- ECE 3575:International Approaches to Early Care and Learning
- INED 3304:Education of Exceptional Students
- ITEC 3100:Improving Learning with Technology in Elementary Classrooms

Professional Education Requirements (37 Credit Hours)

- ECE 3313:Preschool Curriculum and Assessment
- ECE 3565:Infant/Toddler Practicum
- ECE 3570:Preschool Practicum
- ECE 3520:Infant and Toddler Curriculum and Assessment
- ECE 3530:Movement, Music and Art in Birth through Kindergarten Programs

- ECE 4515:Methods in Teaching and the Development of Teaching Language & Literacy in Birth through Kindergarten
- ECE 4525:Methods of Nurturing Second Language Acquisition
- ECE 4535:Methods of Instruction and Identification of B-5 Children with Special Needs
- ECE 4545:Methods in Math & Science in Birth through Kindergarten
- ECE 4555:Methods for Teaching Social Studies Birth through Kindergarten
- ECE 4598:Birth through Five Internship I
- ECE 4599:Birth through Five Internship II

Program Total (120 Credit Hours)

Elementary Education, B.S.

Contact Information

Website: <http://bagwell.kennesaw.edu/departments/eECE>.

Phone: (470) 578-6121

Program Description

This broad-field program is designed to prepare teachers of young children and leads to certification for pre-kindergarten to grade five in Georgia. The cross-disciplinary nature of the program's course requirements, with special emphasis on content studies in mathematics and reading, corresponds to the broad and integrated nature of teaching in the elementary grades and the fundamental importance of developing the reading and mathematical skills of young learners. The program provides candidates with an understanding of developmentally appropriate practices and an awareness of and sensitivity to cultural diversity and individual differences among young learners.

Admission Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or better.
- EDUC 2110 * with a grade of "C" or better, a satisfactory field experience evaluation, and recommendation from the EDUC 2110 instructor. (Students with transfer credit for EDUC 2110 must provide their own Supplemental Teacher Recommendation.) *or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessment Tests (test codes 210, 211 & 212 or combined test 710).
- Complete the Georgia Educator Ethics - Program Entry exam (test codes 360).

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 (Critical Reading and Mathematics) on tests before March 1, 2016 *OR* 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 *OR* 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 (English and Mathematics)
- GRE: at least 1030 (Verbal and Quantitative *OR* at least 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for this certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- MATH 2008:Foundations of Numbers and Operations
- ISCI 2001:Life and Earth Science
- ISCI 2002:Physical Science

Major Required Core Courses (33 Credit Hours)

- MUED 3340:Music for Early and Middle Grades
- ARED 3309:Visual Art for Early & Middle Grades
- HPE 3670:Early Childhood Health and Physical Education for the Classroom Teacher
- MAED 3316:Rational Numbers and Proportional Reasoning for Elementary Teachers
- MAED 3317:Geometry and Measurement for Elementary Teachers
- ECE 3313:Preschool Curriculum and Assessment
- ECE 3320:Teaching Reading and Writing in the Elementary Grades PK-2
- ECE 3330:Teaching Reading and Writing in the Elementary Grades 3-5
- ECE 3305:Classroom Assessment for Elementary Teachers
- ITEC 3100:Improving Learning with Technology in Elementary Classrooms
- INED 3304:Education of Exceptional Students
- ECE 2250:Child Development and Early Learning

Professional Education (P-5) Requirements (35 Credit Hours)

- INED 4482:Applied Linguistics for Teachers of K-5 English Learners
- INED 4483:Methods and Materials for Teaching ESOL in the K-5 Classroom
- ECE 4402:Teaching Science in Early Childhood Education
- ECE 4403:Teaching Social Studies in Early Childhood Education
- ECE 4408:Teaching Mathematics in Grades P-2
- ECE 4409:Teaching Mathematics in Grades 3-5
- ECE 4410:Reading and Writing Across the Curriculum
- ECE 4475:Designing and Sustaining a Classroom Learning Community
- ECE 4650:Yearlong Clinical Experience I (P-5)
- ECE 4660:Yearlong Clinical Experience II (P-5)
- EDUC 4610:Introduction to the Yearlong Clinical Experience

Program Total (128 Credit Hours)

Middle Grades Education, B.S. (Mathematics, Science, Social Studies, Language Arts Concentrations)

Contact Information

Website: <https://bagwell.kennesaw.edu/departments/smge/programs/bs/middlegrades/index.php>

Phone: (470) 578-6314

Email: mgesmge@kennesaw.edu

Program Description

The B.S. with a major in Middle Grades Education is designed to prepare effective teachers for learners in the middle school (grades 4 through 8). It leads to grades 4-8 teacher certification in Georgia. Candidates prepare in two of the five middle grades curriculum areas (mathematics, science, social studies, language arts, or reading). Preparation in the two teaching fields selected is more in-depth than the content requirements of the program for early childhood educators, but less extensive and less specialized than the requirements of programs for secondary educators. The integrated nature of the curriculum and the importance of team teaching strategies are emphasized. Please see the Bagwell College of Education and EPP pages for policies relevant to all education programs.

Admissions Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to Teacher Education, candidates must have completed the following minimum requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or better.

- EDUC 2110 * with a grade of "C" or better, a satisfactory field experience evaluation,*or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessment Tests (test code 210, 211 & 212 or combined test 710)
- Pass the Georgia Educator Ethics Assessment (test code 360)

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016 OR 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 OR 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) OR 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be

considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110: Investigating Critical and Contemporary Issues in Education
- EDUC 2120: Sociocultural Influences on Teaching and Learning
- EDUC 2130: Exploring Teaching and Learning

Teaching Field Courses

From the following content areas, choose one as a primary teaching field concentration and another as a secondary teaching field concentration.

Be advised that the Yearlong Clinical Experience placement will be in the primary content area.

Primary Content Area

Complete both courses, for six credit hours, for the primary content area:

Language Arts:

- ENGL 2271:Introduction to Teaching English Language Arts
- ENGL 2390:Great Works for Middle Grades Teachers

Math:

- MAED 1190:Calculus for Middle Grades Teachers
- MAED 2390:Introduction to Mathematical Systems

Science:

- ISCI 2002:Physical Science
- ASTR 1000K:Introduction to the Universe *one credit hour counted in Teaching Field Requirements

Social Studies:

- GEOG 1130:World Regional Geography
- HIST 2111:United States History to 1877

Secondary Content Area

Complete one course, for three credit hours, from the following for the secondary content area:

Language Arts:

- ENGL 2271:Introduction to Teaching English Language Arts

Math:

- MAED 1190:Calculus for Middle Grades Teachers

Science:

- ASTR 1000K:Introduction to the Universe *one credit hour counted in Teaching Field Requirements

Social Science:

- GEOG 1130:World Regional Geography

Teaching Field Requirements (21 Credit Hours)

Candidates must complete an additional nine credit hours of coursework in their primary content area, and twelve credit hours in their secondary content area beyond courses taken in Area F for a total of 15 credit hours in each content area.

Mathematics

It is recommended that candidates take MATH 1113 and STAT 1401 as part of their General Education Core Curriculum requirements.

- MAED 2390:Introduction to Mathematical Systems
- MAED 3295:Mathematics for Middle Grades and Secondary Teachers
- MAED 3395:Geometric Proofs and Applications
- MAED 3495:Advanced Perspectives on School Mathematics I

Science

It is recommended that candidates take MATH 1113 and STAT 1401 as part of their General Education Core Curriculum requirements.

- ISCI 2002:Physical Science
- SCI 3360:Earth Science
- EDSM 3000K:Survey of Life Science
- One credit hour from ASTR 1000K carried over from Area F

Social Studies

- HIST 2111:United States History to 1877 *Secondary Teaching Field only
- HIST 3304:History of Georgia

Electives

Select two from the following:

- HIST 2206:Origins of Great Traditions
- HIST 3305:The World Since 1945
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- HIST 3382:North Africa and Middle East in Modern Times
- HIST 3391:History of West Africa
- HIST 3392:History of Southern, Eastern and Central Africa
- HIST 4391:Emerging Themes in African History
- GEOG 3312:Geography of Europe
- GEOG 3340:Cultural Geography

- GEOG 3350:Geography of Sub-Saharan Africa
- GEOG 3360:Geography of Asia
- GEOG 3370:Geography of Latin America and the Caribbean
- GEOG 3380:Geography of North America

Language Arts

- ENGL 2390:Great Works for Middle Grades Teachers
- ENGL 3250:Teaching Writing in Middle Grades Language Arts
- ENGL 3270:Teaching Grammar and Usage in Middle Grades Language Arts
- LING 3025:Linguistics for Education

Professional Education (39 Credit Hours)

Students must be admitted to Teacher Education Program before taking these courses. An application is required for admission to the Yearlong Clinical Experience.

- EDMG 3300:Success in the Middle: Adolescent Development and Middle Grades Advocacy
- EDMG 3350:Planning, Instruction, and Assessment in the Middle Grades
- EDMG 4411:Seminar in Middle Grades Education
- EDMG 4650:Yearlong Clinical Experience I
- EDMG 4660:Yearlong Clinical Experience II
- EDRD 3330:Methods and Materials for Middle Grades Content Area Reading and Writing
- EDSM 3360:Classroom Management in the Middle Grades and Secondary Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- INED 3300:Educating Students with Exceptionalities in Inclusive Settings
- INED 4431:Foundations for Teaching Diverse English Learners
- ITEC 3200:Improving Learning with Technology in Middle Grade Classrooms

Teaching Field Concentration

Students must complete two courses, for six credit hours, in their selected teaching field.

- EDMG 4401:Teaching Mathematics in Middle Grades
- EDMG 4402:Teaching Science in Middle Grades
- EDMG 4403:Teaching Social Studies in Middle Grades
- EDMG 4404:Teaching Language Arts in Middle Grades

Program Total (120 Credit Hours)

Secondary Education (Mathematics, Broad Field with Biology Emphasis, Chemistry, Physics), BSEd

Contact Information

Website: <https://bagwell.kennesaw.edu/departments/smge/index.php>

Phone: (470) 578-6314

Email: bsedsmge@kennesaw.edu

Program Description

These single field programs are designed to prepare teachers of adolescents, largely at the secondary school level (grades 6 through 12). They lead to 6-12 teacher certification in the teaching fields of mathematics, broad field science (with a biology emphasis), chemistry, and physics in Georgia.

Admissions Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or better.
- EDUC 2110* with a grade of "C" or better, a satisfactory field experience evaluation, *or provide proof of credit from an approved Georgia Pathways Program

2.GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessment Tests (test code 210, 211 & 212 or combined test 710)
- Complete the Georgia Educator Ethics Assessment (test code 360)

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016 *OR* 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 *OR* 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) *OR* 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Area A2:

- MATH 1113 * Biology Emphasis
- MATH 1190 ** Mathematics, Chemistry, Physics Emphasis

Area B2:

- COM 1100 (recommended)

Area D:

Broad Field

- D1: MATH 1190
- D2, Group 1: CHEM 1211 and CHEM 1211L
- D2, Group 2: CHEM 1212 and CHEM 1212L

Chemistry

- D1: MATH 2202
- D2, Group 1: PHYS 2211 and PHYS 2211L
- D2, Group 2: PHYS 2212 and PHYS 2212L

Physics

- D1: MATH 2202
- D2, Group 1: CHEM 1211 and CHEM 1211L
- D2, Group 2: CHEM 1212 and CHEM 1212L

Mathematics

- D1: MATH 2202
- D2: Select any 2 science course sequence (no lab required with 2nd science course)

Area E

- STS 1101 (recommended)

Broad field with Biology Emphasis:

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110: Investigating Critical and Contemporary Issues in Education
- EDUC 2120: Sociocultural Influences on Teaching and Learning
- EDUC 2130: Exploring Teaching and Learning
- BIOL 1107: Biological Principles I
- BIOL 1107L: Biological Principles I Laboratory
- BIOL 1108: Biological Principles II
- BIOL 1108L: Biological Principles II Laboratory

Major Requirements (31 Credit hours)

- BIOL 3300: Genetics
- BIOL 3300L: Genetics Laboratory
- BIOL 3340: Microbiology
- BIOL 3340L: Microbiology Laboratory
- BIOL 3370: Ecology

- BIOL 3370L:Ecology Laboratory
- BIOL 4350K:Comparative Vertebrate Anatomy
or
- BIOL 4431:Human Physiology
- BIOL 4431L:Human Physiology Laboratory
- SCI 3360:Earth Science
- STAT 3125:Biostatistics

Supporting Content Requirements

- PHYS 1111:Introductory Physics I
- PHYS 1111L:Introductory Physics Laboratory I
- PHYS 1112:Introductory Physics II
- PHYS 1112L:Introductory Physics Laboratory II

Professional Education (33 Credit Hours)

Must be admitted to Teacher Education Program before taking these courses.

- INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I
- INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II
- INED 4435:Foundations of Teaching Adolescent English Learners
- INED 4436:Foundations of Teaching Adolescent English Learners II
- ITEC 3300:Improving Learning with Technology in High School Classrooms
- EDSM 3360:Classroom Management in the Middle Grades and Secondary Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- EDSM 4414:Teaching Secondary Math and Science- Practicum I
- EDSM 4416:Teaching Secondary Math & Science Practicum II
- EDSM 4418:Methods of Teaching Secondary Math & Science II
- SCED 4414:Methods of Teaching Secondary Science I
- SCED 4416:Methods of Teaching Secondary Science II
- SCED 4650:Yearlong Clinical Experience I
- SCED 4660:Yearlong Clinical Experience II

Broad Field Program Total (124 Credit Hours)

Chemistry:

Lower Division Major Requirements (Area F) 18 Credit Hours

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- CHEM 1211:Principles of Chemistry I

- CHEM 1211L:Principles of Chemistry Laboratory I
- CHEM 1212:Principles of Chemistry II
- CHEM 1212L:Principles of Chemistry Laboratory II

Major Requirements (28 Credit Hours)

- CHEM 3050:Physical Chemistry
- CHEM 3105:Inorganic Chemistry
- CHEM 3105L:Inorganic Synthesis
- CHEM 3361:Modern Organic Chemistry I
- CHEM 3361L:Modern Organic Chemistry Lab I
- CHEM 3362:Modern Organic Chemistry II
- CHEM 3362L:Modern Organic Chemistry Lab II
- CHEM 3500:Biochemistry
- CHEM 3500L:Biochemistry Laboratory

- CHEM 3700:Environmental Chemistry
or
- CHEM 3400:The Teaching and Learning of Chemistry
or
- SCI 3360:Earth Science

Supporting Discipline Requirements

- CHEM 2800:Quantitative Analytical Chemistry
- CHEM 2800L:Quantitative Analytical Chemistry Laboratory

Professional Education (33 Credit Hours)

Must be admitted to Teacher Education Program before taking these courses.

- INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I
- INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II
- INED 4435:Foundations of Teaching Adolescent English Learners
- INED 4436:Foundations of Teaching Adolescent English Learners II
- ITEC 3300:Improving Learning with Technology in High School Classrooms
- EDSM 3360:Classroom Management in the Middle Grades and Secondary Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- EDSM 4414:Teaching Secondary Math and Science- Practicum I
- EDSM 4416:Teaching Secondary Math & Science Practicum II
- EDSM 4418:Methods of Teaching Secondary Math & Science II
- SCED 4414:Methods of Teaching Secondary Science I
- SCED 4416:Methods of Teaching Secondary Science II
- SCED 4650:Yearlong Clinical Experience I
- SCED 4660:Yearlong Clinical Experience II

Chemistry Program Total (121 Credit Hours)

Physics:

Lower Division Major Requirements (Area F) 18 Credit hours

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- PHYS 2213:Principles of Physics III
- MATH 2203:Calculus III

Major Requirements (30 Credit Hours)

- PHYS 3210:Mechanics I
- PHYS 3220:Electromagnetism 1
- PHYS 3500K:Computational Physics I
- PHYS 3710:Modern Physics
- PHYS 3720L:Modern Physics Laboratory
- PHYS 4210:Quantum Mechanics I

Supporting Discipline Requirements

- MATH 2306:Ordinary Differential Equations
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II

Professional Education (33 Credit Hours)

Must be admitted to Teacher Education Program before taking these courses.

- INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I
- INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II
- INED 4435:Foundations of Teaching Adolescent English Learners
- INED 4436:Foundations of Teaching Adolescent English Learners II
- ITEC 3300:Improving Learning with Technology in High School Classrooms
- EDSM 3360:Classroom Management in the Middle Grades and Secondary Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- EDSM 4414:Teaching Secondary Math and Science- Practicum I
- EDSM 4416:Teaching Secondary Math & Science Practicum II
- EDSM 4418:Methods of Teaching Secondary Math & Science II
- SCED 4414:Methods of Teaching Secondary Science I
- SCED 4416:Methods of Teaching Secondary Science II
- SCED 4650:Yearlong Clinical Experience I

- SCED 4660:Yearlong Clinical Experience II

Physics Program Total (123 Credit Hours)

Mathematics:

Lower Division Major Requirements (Area F) 18 Credit Hours

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- STAT 2332:Probability and Data Analysis
- MATH 2203:Calculus III

Major Requirements (27 Credit Hours)

Students must take the following courses plus three credit hours from any MATH/STAT 3000/4000 level courses except MATH 3316, MATH 3317, MATH 3390.

Note: At most nine total hours of credit can be given for MATH 3398 and at most three of those hours can be used a Teaching Field Elective.

- MATH 2390:Introduction to Logic, Set Theory, and Proofs
- MATH 3260:Linear Algebra I
- MAED 3295:Mathematics for Middle Grades and Secondary Teachers
- MAED 3395:Geometric Proofs and Applications
- MAED 3475:Historical and Modern Approaches to Mathematics (Must be admitted to Teacher Education Program before taking this course.)
- MAED 3495:Advanced Perspectives on School Mathematics I
- MATH 4361:Modern Algebra I
- MAED 4495:Advanced Perspectives on School Mathematics Part II

Professional Education (33 Credit Hours)

Must be admitted to Teacher Education Program before taking these courses.

- INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I
- INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II
- INED 4435:Foundations of Teaching Adolescent English Learners
- INED 4436:Foundations of Teaching Adolescent English Learners II
- ITEC 3300:Improving Learning with Technology in High School Classrooms
- EDSM 3360:Classroom Management in the Middle Grades and Secondary Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- EDSM 4414:Teaching Secondary Math and Science- Practicum I
- EDSM 4416:Teaching Secondary Math & Science Practicum II
- EDSM 4418:Methods of Teaching Secondary Math & Science II
- MAED 4414:Methods of Teaching Secondary Mathematics I

- MAED 4416:Methods of Teaching Secondary Mathematics II
- MAED 4650:Yearlong Clinical Experience I
- MAED 4660:Yearlong Clinical Experience II

Mathematics Program Total (120 Credit Hours)

Endorsement

ESOL (English to Speakers of Other Languages) Endorsement (B.S. in Elementary Education)

Contact Information

Website: <https://bagwell.kennesaw.edu/departments/eece/index.php>

Phone: (470) 578-6121

Program Description

The ESOL (English to Speakers of Other Languages) Endorsement is embedded in the B.S. in Elementary Education. Preservice candidates enrolled in the B.S. program take two courses taught by TESOL faculty (INED 4482 (Applied Linguistics for Teachers of K-5 English Learners) and INED 4483 (Methods and Materials for Teaching ESOL in the K-5 Classroom). Additionally, cultural issues objectives are embedded throughout the program of study. In order to receive the endorsement, candidates must receive a "B" in INED 4482 & INED 4483 AND a score of 3 (meets) or higher on each criterion of the performance based Key Assessments.

Required Courses

- INED 4482:Applied Linguistics for Teachers of K-5 English Learners
- INED 4483:Methods and Materials for Teaching ESOL in the K-5 Classroom

College of Architecture and Construction Management

Baccalaureate

Architecture, B.ARCH

Contact Information

Website: <https://cacm.kennesaw.edu/architecture/programs/bachelor-architecture.php>

Phone: (470) 578-7253

Program Description

Kennesaw State University's College of Architecture and Construction Management is the only public state institution in Georgia to offer an accredited five-year professional degree: The Bachelor of Architecture. It offers unique educational opportunities for its students including: The Summer Design Workshop, the Focus Studio: a research-based studio with and invited studio critic, and an individually structured Thesis project. The Program also offers students organized travel opportunities within the U.S. and abroad.

The curriculum is divided into two components; the lower division and the upper division. The lower division constitutes the first two years of the program and its curriculum is designed to introduce basic skill sets, fundamentals of design and building technologies. The upper division constitutes the last three years of the program. Its curriculum is designed to enhance the students understanding of the relationship between people and the built environment, the role of technology, structures in comprehensive design, the importance of history and theory to design and introduce the broader challenges of urbanism and design research.

The mission of the Architecture Department is to expand and extend the University's mission into the realm of Architecture, preparing students for professional practice in the design, planning, development and stewardship of the built environment. The Architecture Program fosters invention, creativity and craft through hands-on exploration that is the foundation of technological innovation. Moreover, knowledge of cultural diversity, communication, history and criticism is seen as inseparable from the application of such innovation. This holistic process is "the making of architecture."

Admissions Requirements

Admission to the Architecture program is separate from admission to Kennesaw State University. Students must meet the program admission requirements, outlined below.

Students seeking entry to the lower division of the B.ARCH program as freshmen must first be accepted to KSU and in addition must have:

- 2.5 GPA in 17 units of required high school course work

- 1080 minimum total SAT score (25 minimum reading test score, 490 minimum math score) OR 21 minimum composite ACT score (18 minimum English sub-score, 18 minimum math sub-score)

Students seeking entry as a change of major must have :

- completed a full academic year of course work at KSU
- maintained a minimum 2.5 institutional GPA

Transfer students with course work from a NAAB accredited architecture program may submit a portfolio for advanced placement.

Select students may be admitted into the B.ARCH Accelerated Program. This program is a three semester track (Fall/Spring/Summer), that fulfills the requirements of the lower division Architecture core curriculum. Entry into this track is for change of major and transfer students with 36 or more university credits, who have completed a minimum of 6 required General Education Core Curriculum courses as specified in the B.ARCH course map, including the Math and Physics requirements.

Degree Progression

To progress into upper-division course work students must pass Portfolio Review. Requirements include:

- 2.5 minimum university adjusted GPA
- Meet all ARCH core course requirements of the lower division with a "C" or higher
- 2.5 minimum ARCH course GPA
- Have completed all General Education Core Curriculum courses required in the program map with a grade of "C" or higher
- Submit a portfolio of work for evaluation with a minimum score 2.5 or higher

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The Bachelor of Architecture program at KSU is a 5-year, NAAB accredited, first professional degree in architecture, leading to eligibility for licensure (Architectural Registration Exam). The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture and the Doctor of Architecture. A program may be granted an 8-year or 2- year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The NAAB grants candidacy status to new programs that have developed viable plans for achieving initial accreditation. Candidacy status indicates that a program should be accredited within 6 years of achieving candidacy, if its plan is properly implemented. In order to meet the educational requirement set forth by the National Council of Architectural Registration Boards (NAAB), an applicant for an NCARB Certificate must hold a professional degree in architecture from a program accredited by the NAAB; the degree must have been awarded not more than two years prior to initial accreditation. However, meeting the educational requirement for the NCARB Certificate may not be equivalent to meeting the education requirement for registration in a specific jurisdiction. Please contact NCARB for more information.

The Kennesaw State University, Department of Architecture has been accredited since 1995 and offers the following NAAB-accredited degree:

5- year B.ARCH (150 undergraduate credits)

The next accreditation visit for the B.ARCH program is 2023.

Program of Study

5 Year Professional Degree

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- PHYS 1111: Introductory Physics I
- PHYS 1111L: Introductory Physics Laboratory I
or
- PHYS 2211: Principles of Physics I
- PHYS 2211L: Principles of Physics Laboratory I

- ARCH 1000:Introduction to Architecture
- ARCH 1241:Design Communication I
- ARCH 2242:Design Communication II
- ARCH 2211:Architecture Structures I - Introduction to Structures
- ARCH 2111:Architecture Culture I: Early Civilizations & Medieval
- Two Credit Hours from General Education Core Curriculum Area D

Studio Requirements (40 Credit Hours)

Lower Division Studio

Note: Accelerate Studio courses must have Department Chair permission for enrollment

- ARCH 1001:Architecture Studio I
- ARCH 1002:Architecture Studio II
- ARCH 2003:Architecture Studio III
- ARCH 2004:Architecture Studio IV
OR
- ARCH 1011:Accelerated Studio I
- ARCH 1012:Accelerated Studio II
- ARCH 2013:Accelerated Studio III

Upper Division Studio

- ARCH 3011:Architecture Studio V
- ARCH 3012:Architecture Studio VI
- ARCH 4013:Architecture Studio VII: Integrative Design
- ARCH 4014:Architecture Studio VIII: Urban Lab
- ARCH 5015:Focus Studio
- ARCH 5017:Thesis Studio

Major Requirements (39 Credit Hours)

- ARCH 2311:Environmental Tech I -Systems Selection and Materials
- ARCH 3112:Architecture Culture II - The Renaissance through 1850
- ARCH 3113:Architecture Culture III: 1850 through 1945
- ARCH 3211:Architecture Structures II: Steel and Wood
- ARCH 3212:Architecture Structures III: Concrete and Lateral Loads
- ARCH 3313:Environmental Technology II: Human Comfort and Building Systems
- ARCH 3314:Environmental Technology III: Lighting, Electrical and Acoustics
- ARCH 4114:Architecture Cultures IV: The Development of Architecture into the Twenty-First Century
- ARCH 4116:Urban Planning and Design Theory
- ARCH 4117:Thesis Prep
- ARCH 4224:Professional Practice I: Codes and Technical Documents

- ARCH 4225:Professional Practice II - Cost Control
- ARCH 4226:Professional Practice III: Practice and Ethics
- ARCH 5016:Thesis Research

Electives (11 Credit Hours)

The electives pursued towards the BARCH degree should be at or above the 2000 level or equivalent. Transfer credits not meeting this threshold may be accepted upon review and approval. These criteria will also apply to courses that were completed towards a minor that is no longer pursued.

Program Total: 150 Credit Hours

Construction Management, B.S.

Contact Information

Website: <https://cacm.kennesaw.edu/constructionmanagement/index.php>

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

The Construction Management Department offers students the bachelor's degree with a major in Construction Management and the Master of Science in Construction Management. While professional experience is preferred, students with a bachelor's degree or higher in architecture, construction management, technology, engineering, or related fields are encouraged to apply. Certificates are also available in project management, land development, and specialty construction.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The KSU Department of Construction Management Bachelor's and Master's programs are accredited by the American Council of Construction Education (ACCE).

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Requirements (Area F) (18 Credit Hours)

- CM 1000:Orientation to Construction and Development
- ACCT 2101:Principles of Accounting I
- BLAW 2200:Legal and Ethical Environment of Business
- SURV 2200:Construction Measurements
- PHYS 1111:Introductory Physics I
- PHYS 1111L:Introductory Physics Laboratory I
Carryover 1 credit hour from D1
Carryover 1 credit hour from D2

Major Requirements (57 Credit Hours)

- CM 2000:Construction Graphics
- CM 2210:Introduction to Structures
- CM 3000:Computer Applications in Construction
- CM 3040:Building Information Modeling I
- CM 3110:Residential and Light Construction Methods
- CM 3180:Mechanical and Electrical Building Systems
- CM 3400:Risk and Quality Management
- CM 3410:Construction Quantity Surveying
- CM 3800:Construction Finance
- CM 4510:Construction Scheduling
- CM 4560:Construction Project Management
- CM 4660:Advanced Scheduling & Project Management
- CM 4710:Construction Safety
- CM 4760:Construction and Real Estate Property Law
- CM 4900:Capstone Project
- ECON 2105:Principles of Macroeconomics
or

- ECON 2106:Principles of Microeconomics
- MGT 3100:Management and Behavioral Sciences
- IS 2200:Information Systems and Communication
- TCOM 2010:Technical Writing

Choose One of the Following Concentrations (12 Credit Hours):

General Concentration

- CM 3500:Building Codes
- CM 3260:Temporary Structures
- CM 3420:Construction Estimating and Bid Preparation
CM Elective or
- MKTG 3100:Principles of Marketing

Land Development Concentration

- CM 3310:Real Estate Development Practices
- CM 3710:Market and Site Analysis
- CM 4620:Development Process and Finance
CM Elective or
- MKTG 3100:Principles of Marketing

Specialty Construction Concentration

- CM 3280:Building Mechanical and Electrical Codes and Loads
- CM 3480:Mechanical and Electrical Systems Estimating
- CM 4480:Design/Build MEP Systems
CM Elective or
- MKTG 3100:Principles of Marketing

Heavy Construction Concentration

- CM 3170:Heavy Construction Practices
- CM 3440:Heavy Estimating
- CM 4230:Heavy Materials & Temporary Structures
CM Elective or
- MKTG 3100:Principles of Marketing

Facilities Management Concentration

- CM 3270:Facility Management Strategies
- CM 3290:Finance for Facility Managers
- CM 4190:Sustainable Operation & Maintenance
CM Elective or
- MKTG 3100:Principles of Marketing

Residential Concentration

- CM 3310:Real Estate Development Practices
- CM 3910:Sustainable Residential Practices
- CM 4512:Emerging Trends in Residential Construction
CM Elective or
- MKTG 3100:Principles of Marketing

Program Total (129 Credit Hours)

Certificate

Facilities Management Certificate

Contact Information

Website: https://cacm.kennesaw.edu/constructionmanagement/programs/certificates/facility_management.php

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

The Facilities Management Certificate program is designed to provide students with the skills related to the ongoing operation of built environments in accordance with IFMA eleven core competencies. This Certificate program requires 18 credit hours and can potentially be completed in one year.

Core Courses (12 Credit Hours)

- CM 3180:Mechanical and Electrical Building Systems
- CM 3270:Facility Management Strategies
- CM 3290:Finance for Facility Managers
- CM 4190:Sustainable Operation & Maintenance

Electives (6 Credit Hours)

Choose two of the following:

- CM 3110:Residential and Light Construction Methods
- CM 3190:Sustainable Construction
- CM 3310:Real Estate Development Practices
- CM 3400:Risk and Quality Management
- CM 3410:Construction Quantity Surveying

- CM 3800:Construction Finance
- CM 4620:Development Process and Finance

Program Total (18 Credit Hours)

Land Development Certificate

Contact Information

Website: https://cacm.kennesaw.edu/constructionmanagement/programs/certificates/land_development.php

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

In addition to providing a students with a core knowledge of construction materials and methods, the Certificate in Land Development is designed for those with an interest in the pre-construction process, including market analysis, site planning, development law and finance. This Certificate program requires 18 credit hours and can potentially be completed in one year.

Program Requirements:

Core Courses (12 Credit Hours)

- CM 3310:Real Estate Development Practices
- CM 3710:Market and Site Analysis
- CM 3800:Construction Finance
- CM 4620:Development Process and Finance

Electives (6 Credit Hours)

Choose 2 from the following courses:

- CM 3000:Computer Applications in Construction
- CM 3040:Building Information Modeling I
- CM 3110:Residential and Light Construction Methods
- CM 3190:Sustainable Construction
- CM 3400:Risk and Quality Management
- CM 3410:Construction Quantity Surveying
- CM 3440:Heavy Estimating
- CM 4760:Construction and Real Estate Property Law

Program Total: (18 Credit Hours)

Project Management Certificate

Contact Information

Website: https://cacm.kennesaw.edu/constructionmanagement/programs/certificates/project_management.php

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

The Certificate in Project Management is designed to provide students with skills used by construction managers, such as estimating, scheduling and general knowledge on how to management construction projects. This Certificate program requires 18 credit hours and can potentially be completed in one year.

Program Requirements:

Core Courses (12 Credit Hours)

- CM 2000:Construction Graphics
- CM 3000:Computer Applications in Construction
- CM 3110:Residential and Light Construction Methods
- CM 4560:Construction Project Management

Electives (6 Credit Hours)

Choose 2 of the following courses:

- CM 3040:Building Information Modeling I
- CM 3190:Sustainable Construction
- CM 3410:Construction Quantity Surveying
- CM 3420:Construction Estimating and Bid Preparation
- CM 4510:Construction Scheduling
- CM 4660:Advanced Scheduling & Project Management
- CM 4710:Construction Safety
- CM 4760:Construction and Real Estate Property Law

Program Total: (18 Credit Hours)

Specialty Construction Certificate

Contact Information

Website: https://cacm.kennesaw.edu/constructionmanagement/programs/certificates/specialty_construction.php

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

The Specialty Construction Certificate program is designed for students who are interested in mechanical, electrical and plumbing projects, with an emphasis on energy project management. This Certificate program requires 18 credit hours and can potentially be completed in one year,

Program Requirements:

Core Courses (12 Credit Hours)

- CM 3180:Mechanical and Electrical Building Systems
- CM 3280:Building Mechanical and Electrical Codes and Loads
- CM 3480:Mechanical and Electrical Systems Estimating
- CM 4190:Sustainable Operation & Maintenance

Electives (6 Credit Hours)

Choose 2 from the following courses:

- CM 3000:Computer Applications in Construction
- CM 3040:Building Information Modeling I
- CM 3190:Sustainable Construction
- CM 3400:Risk and Quality Management
- CM 3800:Construction Finance
- CM 4480:Design/Build MEP Systems
- CM 4710:Construction Safety

Program Total: (18 Credit Hours)

Formal Minor

Architecture Minor

Contact Information

Website: <https://cacm.kennesaw.edu/architecture/programs/minor-architecture.php>

Program Description

The minor in Architecture provides students with a focused introduction to the profession in one of three general areas; History/Theory, Environmental Technology or Structures. The Minor in Architecture requires a minimum of 15 hours including:

- A minimum of 9 credits must be completed in 3000 and 4000 level course work
- A maximum of 6 credits in ARCH 1000, ARCH 2242, ARCH 2111, ARCH 2311 may be applied to the minor.
- Architecture upper division free electives are limited to 3 credits
- All courses must be passed with a 'C' grade or higher.

Students seeking the minor in architecture should consult the Minor course flow chart with a CACM advisor for prerequisite requirements.

Required Courses Options- (12 Credit Hours)

Students must select 12 credit hours from the following courses. The courses have been grouped by interest and support courses.

- ARCH 3112:Architecture Culture II - The Renaissance through 1850
- ARCH 3113:Architecture Culture III: 1850 through 1945
- ARCH 4114:Architecture Cultures IV: The Development of Architecture into the Twenty-First Century

- ARCH 2311:Environmental Tech I -Systems Selection and Materials
- ARCH 3313:Environmental Technology II: Human Comfort and Building Systems
- ARCH 3314:Environmental Technology III: Lighting, Electrical and Acoustics

- ARCH 2211:Architecture Structures I - Introduction to Structures
- ARCH 3211:Architecture Structures II: Steel and Wood
- ARCH 3212:Architecture Structures III: Concrete and Lateral Loads

- ARCH 1000:Introduction to Architecture
- ARCH 2242:Design Communication II
- ARCH 2111:Architecture Culture I: Early Civilizations & Medieval

- ARCH 4116:Urban Planning and Design Theory

Electives (3 Credit Hours)

Choose any ARCH 3000 level, or higher, course(s) for a maximum of three credit hours.

Program Total (15 Credit Hours)

Construction Management Minor

Contact Information

Website: <https://cacm.kennesaw.edu/constructionmanagement/programs/minor.php>

Phone: (470) 578-4215

Email: constructionmanagement@kennesaw.edu

Program Description

Students seeking a bachelor's degree in other majors may pursue a minor in Construction Management.

Requirements

- CM 2000:Construction Graphics
- CM 3000:Computer Applications in Construction
- CM 3110:Residential and Light Construction Methods
- CM 3410:Construction Quantity Surveying
- CM 4510:Construction Scheduling

Program Total (15 Credit Hours)

College of Computing and Software Engineering

Baccalaureate

Computer Game Design and Development, BSCGDD

Contact Information

Website: <https://ccse.kennesaw.edu/swegd/programs/bscgdd.php>

Phone: (470) 578-3790

Email: swe@kennesaw.edu

Program Description

The Bachelor of Science in Computer Game Design and Development equips students and graduates with the skills and knowledge to apply computing and software engineering techniques to the design and production of digital media for entertainment, research, and education. As a specialization within the field of computing, game design and development builds on and applies expertise in computing hardware and software to create engaging and immersive multimedia systems.

Progression Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, progression through the program requires students to successfully complete or transfer the equivalent of CSE 1321, CSE 1321L, CSE 1322, and CSE 1322L with a grade of 'B' or better in all four courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Computer Game Design and Development program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org/>

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

* Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I
 - CSE 1321L:Programming and Problem Solving I Laboratory
 - CSE 1322:Programming and Problem Solving II
 - CSE 1322L:Programming and Problem Solving II Laboratory
 - CSE 2300:Discrete Structures for Computing
 - or
 - MATH 2345:Discrete Mathematics
 - STAT 2332:Probability and Data Analysis
 - CGDD 2012:Fundamentals of Game Design
 - CGDD 2012L:Fundamentals of Game Design Lab
- One credit hour carried over from Area D2

Major Required Courses (46 Credit Hours)

- CSE 3153:Database Systems
- CSE 3801:Professional Practices and Ethics
- CS 3305:Data Structures
- CS 4306:Algorithm Analysis
- CS 4722:Computer Graphics and Multimedia
- SWE 3313:Introduction to Software Engineering
- SWE 3643:Software Testing & Quality Assurance
- SWE 4324:User-Centered Design
- CGDD 4242:Agent-Based Artificial Intelligence
- CGDD 3103:Application Extension and Scripting
- CGDD 4003:Digital Media and Interaction
- CGDD 4203:Mobile & Casual Game Development
- CGDD 4303:Educational and Serious Game Design
- CGDD 4803:Studio

- CGDD 4814:Studio 2
One credit hour carried over from Area D1

Major Elective Tracks (14 Credit Hours)

Media-Production Track

Required Courses (9 Credit Hours)

- MATH 3260:Linear Algebra I
- CGDD 4113:3D Modeling and Animation
- CGDD 4603:Production Pipeline and Asset Management

Free Electives (5 Credit Hours)

Select any courses in the university curriculum.

Educational-Serious Track

Required Courses (12 Credit Hours)

- CGDD 4313:Designing Online Learning Content and Environments
 - TCOM 2010:Technical Writing
- Select any two approved TCOM courses for six credit hours

Free Electives (2 Credit Hours)

Select any courses in the university curriculum.

Planning-Management Track

Required Courses (9 Credit Hours)

Select at least three courses for nine credit hours from of the following:

- MGT 3100:Management and Behavioral Sciences
- MGT 4185:Technology Management
- ENTR 4001:Entrepreneurial Mind
- ENTR 4122:Venture Analysis
- ENTR 4490:Special Topics in Entrepreneurship
- SWE 3623:Software Systems Requirements
- SWE 4663:Software Project Management

Free Electives (5 Credit Hours)

Select any courses in the university curriculum, including additional courses from the list above.

Simulations-Informatics Track

Required Courses (6 Credit Hours)

- CGDD 4703:Data Modeling and Simulation
One Approved Upper-Level CSE/CGDD/SWE/CS/IT Special Topics/Internship/Directed Study in this area for three credit hours

Free Electives (8 Credit Hours)

Select any courses in the university curriculum.

Creative Content Track

Required Courses (12 Credit Hours)

- CGDD 4113:3D Modeling and Animation
- MEBU 2270:Entertainment Media Production
Select at least two courses from the following:
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 4470:Advanced Audio Production and Technology
- MEBU 4490:Special Topics in the Music and Entertainment Business
Contact MEBUS Program for other available options

Free Electives (2 Credit Hours)

Select any courses in the university curriculum.

Computer Science Track

Required Courses (9 Credit Hours)

Select 9 credit hours of upper-division CS courses, which must be non-duplicative hours with the major requirements.

Free Electives (5 Credit Hours)

Select any courses in the university curriculum.

Custom Track

Required Courses (9 Credit Hours)

Must contain at least 9 credit hours upper-level coursework. Please see advisor for course selection.
*Note: Students are encouraged to consider Special Topics, Internships, and/or Directed Studies courses, examples listed below.

- CGDD 4400:Directed Study
- IT 4490:Special Topics in Information Technology
- SWE 4490:Special Topics
- CSE 4983:CSE Computing Internship

Free Electives (5 Credit Hours)

Select any course in the university curriculum.

Program Total (120 Credit Hours)

Computer Science B.S.

Contact Information

Website: <https://ccse.kennesaw.edu/cs/programs/bscs.php>

Phone: (470) 578-6005

Email: csinfo@kennesaw.edu

Program Description

The Bachelor of Science with a major in Computer Science program (BSCS) provides a blend of the foundations of computer science (CS) and applications in the information technology (IT) industry. The BSCS program emphasizes the study of computer systems architecture, software development, and data communications. Core technology areas include programming, computer architecture, operating systems, data communication, database systems, and software engineering. These areas are supported by a strong foundation in computing principles such as the design of programming languages, data structures, and operating system principles. The program includes a mathematics component and mathematics concepts are incorporated into many of the major courses.

Graduates of the CS program are prepared for a variety of careers in CS and IT, especially in the development of software for distributed systems. Example job titles from KSU graduates of the CS program include information technology specialist, programmer analyst, software engineer, network administrator, and software consultant. This program also prepares students for graduate studies in computing-related fields.

Progression Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, progression through the program requires students to successfully complete or transfer the equivalent of CSE 1321, CSE 1321L, CSE 1322, and CSE 1322L with a grade of 'B' or better in all four courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science with a major in Computer Science program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org/>

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1 .

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

* Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CSE 1322:Programming and Problem Solving II
- CSE 1322L:Programming and Problem Solving II Laboratory
- MATH 2202:Calculus II
- MATH 2345:Discrete Mathematics
- TCOM 2010:Technical Writing

Major Core Requirements (40 Credit Hours)

- CS 3305:Data Structures
- CS 3503:Computer Organization and Architecture
- CS 3502:Operating Systems

- SWE 3313:Introduction to Software Engineering
- CS 3410:Introduction to Database Systems
- CS 4306:Algorithm Analysis
- CS 3622:Fundamentals of Data Communications
- CS 4504:Parallel and Distributed Computing
- CS 4308:Concepts of Programming Languages
- CSE 3801:Professional Practices and Ethics
- CS 4850:Computer Science Senior Project
- STAT 2332:Probability and Data Analysis
- MATH 3260:Linear Algebra I
One credit hour from Area D1
One credit hour from Area D2

Major Electives (15 Credit Hours)

Complete 15 credit hours from Major Electives list with at least 9 credit hours within the discipline, OR select one concentration area and complete its requirements.

- SWE 3633:Software Architecture and Design
- SWE 3643:Software Testing & Quality Assurance
- SWE 3683:Embedded Systems Analysis and Design
- SWE 4633:Cloud Software Development
- CSE 4983:CSE Computing Internship
- Any CS 3000-level or 4000-level course.

Artificial Intelligence Concentration (15 Credit Hours)

Required Courses (12 Credit Hours)

- CS 3642:Artificial Intelligence
- CS 4267:Machine Learning
- CS 4732:Machine Vision
- CS 4742:Natural Language Processing

Elective (3 Credit Hours)

Choose One:

- CS 4277:Deep Learning
- CS 4491:Advanced Topics in Computer Science (in concentration)
- CS 4492:Undergraduate Research
- CSE 4983:CSE Computing Internship (in concentration)

Data Science Concentration (15 Credit Hours)

Required Courses (12 Credit Hours)

- CS 4265:Big Data Analytics
- CS 4412:Data Mining
- CS 4422:Information Retrieval
- CS 4522:HPC & Parallel Programming

Elective (3 Credit Hours)

Choose One:

- CS 4524:Cloud Computing
- CS 4722:Computer Graphics and Multimedia
- CS 4491:Advanced Topics in Computer Science (in concentration)
- CS 4492:Undergraduate Research
- CSE 4983:CSE Computing Internship (in concentration)

Cyber and Network Security Concentration (15 Credit Hours)

Required Courses (12 Credit Hours)

- CS 3626:Cryptography
- CS 4612:Software Security
- CS 4622:Computer Networks
- CS 4626:Computer and Network Security

Elective (3 Credit Hours)

Choose One:

- CS 4491:Advanced Topics in Computer Science (in concentration)
- CS 4492:Undergraduate Research
- CSE 4983:CSE Computing Internship (in concentration)
- IT 4823:Information Security Administration & Privacy
- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4883:Infrastructure Defense

Free Electives (5 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Information Technology, B.A.S.

Contact Information

Website: <https://ccse.kennesaw.edu/it/programs/basit.php>

Phone: 470-578-3803

Email: itdepartmentinfo@kennesaw.edu

Program Description

The Bachelor of Applied Science with a major in Information Technology is designed for students who have an Associate of Applied Science in computing from a member institution of the Technical College System of Georgia. The courses that you have completed for your AAS will transfer as a block, and you will be required to take an additional 67 credit hours (or approximately 2.5 years of full-time study) to obtain the BAS degree.

Admission Requirements

Admission to the Information Technology B.A.S. degree is separate from admission to Kennesaw State University. Students must meet the program requirements below to pursue this degree program:

- Earn an A.A.S in a computing field with a GPA of 2.3 or better from a TCSG college to transfer into the BASIT program

Progression Requirements

Progression through the program requires students to successfully complete or transfer the equivalent of CSE 1321, CSE 1321L, CSE 1322, and CSE 1322L with a grade of 'B' or better in all four courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Information Technology program is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>. The B.A.S. in Information Technology was reviewed & accredited in 2016.

Double Owls

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CSE 1322:Programming and Problem Solving II
- CSE 1322L:Programming and Problem Solving II Laboratory

- CSE 2300:Discrete Structures for Computing
or
- MATH 2345:Discrete Mathematics

- Six credit hour Technical Block transferred from A.A.S. or A.A.T. degree
- One credit hours carried over from Area D2

Technical Block (20 Credit Hours)

The Technical Block requires: 20 hours of CIS/CIST courses from the student's A.A.S. or A.A.T. degree.

Major Requirements (37 Credit Hours)

- CSE 3153:Database Systems
- CSE 3801:Professional Practices and Ethics
- IT 3003:Professional Development & Entrepreneurship
- IT 3123:Hardware and Software Concepts

- IT 3203:Introduction to Web Development
- IT 3223:Software Acquisition and Project Management
- IT 3423:Operating Systems Concepts & Administration
- IT 3883:Advanced Application Development
- IT 4323:Data Communications & Networking
- IT 4683:Management of Information Technology and Human Computer Interaction
- IT 4823:Information Security Administration & Privacy
- IT 4983:IT Capstone
- One credit hour carried over from Area D1

Directed Electives (3 Credit Hours)

Select from the following courses for a total of three credit hours:

- IT 3503:Foundations of Health Information Technology
- IT 3703:Introduction to Data Analytics and Technology
- IT 4153:Advanced Database
- IT 4333:Network Configuration & Administration
- IT 4490:Special Topics in Information Technology
- IT 4403:Advanced Web and Mobile Applications
- IT 4603:Introduction to Blockchain Technologies
- IT 4673:Virtual IT Systems
- IT 4713:Business Intelligence Systems
- IT 4723:IT Policy and Laws
- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4863:Web and Mobile Application Security
- IT 4883:Infrastructure Defense
- IT 4893:Internet of Things: Applications and Security
- FTA 4001:Foundations of FinTech
- FTA 4002:Financial Technologies
- FTA 4005:Introduction to Financial Data Analytics
- CSE 4983:CSE Computing Internship

Program Total (120 Credit Hours)

Note: All IT, CS, CSE AND SWE designator courses must have a grade of "C" or higher. Students must earn a grade of "B" or higher in CSE 1321/L and CSE 1322/L.

Information Technology, BSIT

Contact Information

Website: <https://ccse.kennesaw.edu/it/programs/bsit.php>

Phone: (470) 578-3803

Email: itdepartmentinfo@kennesaw.edu

Program Description

The Bachelor of Science in Information Technology degree, has the primary objective of meeting the high demand for professional degrees in the strategy, development and administration of integrated computing, management, and information technology systems. The degree has core requirements, major requirements and required electives. The major contains those courses considered fundamental to the information technology field and the electives give the student some flexibility in choice.

Progression Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, progression through the program requires students to successfully complete or transfer the equivalent of CSE 1321, CSE 1321L, CSE 1322, and CSE 1322L with a grade of 'B' or better in all four courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Information Technology degree is accredited by the Computing Accreditation Commission of ABET, www.abet.org.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu/>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to the Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I
 - CSE 1322:Programming and Problem Solving II
 - CSE 1321L:Programming and Problem Solving I Laboratory
 - CSE 1322L:Programming and Problem Solving II Laboratory
 - CSE 2300:Discrete Structures for Computing
 - or
 - MATH 2345:Discrete Mathematics
 - TCOM 2010:Technical Writing
 - STAT 2332:Probability and Data Analysis
- One credit hour carried over from Area D2

Major Requirements (40 Credit Hours)

- CSE 3153:Database Systems
 - CSE 3801:Professional Practices and Ethics
 - IT 3003:Professional Development & Entrepreneurship
 - IT 3123:Hardware and Software Concepts
 - IT 3203:Introduction to Web Development
 - IT 3223:Software Acquisition and Project Management
 - IT 3423:Operating Systems Concepts & Administration
 - IT 3883:Advanced Application Development
 - IT 4323:Data Communications & Networking
 - IT 4683:Management of Information Technology and Human Computer Interaction
 - IT 4723:IT Policy and Laws
 - IT 4823:Information Security Administration & Privacy
 - IT 4983:IT Capstone
- One credit hour carried over from Area D1

Upper Level Concentrations (15 Credit Hours)

All BSIT students are required to take a minimum of 15 credit hours in an upper-level concentration. They choose one of the four concentrations and complete any 4 of the courses listed for that concentration. The 5th course in the concentration can be a course from that same concentration or one of the other concentrations or IT Special Topics course or CSE Internship course.

Data Analytics and Technology Concentration

Complete any four courses for a total of 12 credit hours from the following:

- IT 3703:Introduction to Data Analytics and Technology
- IT 4713:Business Intelligence Systems
- IT 4733:Big Data System Administration
- IT 4773:Machine Learning for Enterprise Applications
- IT 4793:Applied Data Driven Solutions

5th Course Option

The 5th course can be any Data Analytics and Technology concentration course not already elected or one of the following:

- CSE 4983:CSE Computing Internship
- IT 3503:Foundations of Health Information Technology
- IT 4153:Advanced Database
- IT 4333:Network Configuration & Administration
- IT 4403:Advanced Web and Mobile Applications
- IT 4603:Introduction to Blockchain Technologies
- IT 4673:Virtual IT Systems
- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4863:Web and Mobile Application Security
- IT 4883:Infrastructure Defense
- IT 4893:Internet of Things: Applications and Security
- IT 4490:Special Topics in Information Technology
- IT 4493:IT Undergraduate Research

Enterprise Systems Concentration

Complete any four courses for a total of 12 credit hours from the following:

- IT 3503:Foundations of Health Information Technology
- IT 4153:Advanced Database
- IT 4333:Network Configuration & Administration
- IT 4403:Advanced Web and Mobile Applications
- IT 4673:Virtual IT Systems

5th Course Option

The 5th course can be any Enterprise Systems concentration course not already elected or one of the following:

- CSE 4983:CSE Computing Internship

- IT 3703:Introduction to Data Analytics and Technology
- IT 4603:Introduction to Blockchain Technologies
- IT 4713:Business Intelligence Systems
- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4863:Web and Mobile Application Security
- IT 4883:Infrastructure Defense
- IT 4893:Internet of Things: Applications and Security
- IT 4490:Special Topics in Information Technology
- IT 4493:IT Undergraduate Research

Cyber Operations Security Concentration

Complete any four courses for a total of 12 credit hours from the following:

- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4863:Web and Mobile Application Security
- IT 4883:Infrastructure Defense
- IT 4893:Internet of Things: Applications and Security

5th Course Option

The 5th course can be any Cyber Operations Security concentration course not already elected or one of the following:

- CSE 4983:CSE Computing Internship
- IT 3503:Foundations of Health Information Technology
- IT 3703:Introduction to Data Analytics and Technology
- IT 4153:Advanced Database
- IT 4333:Network Configuration & Administration
- IT 4403:Advanced Web and Mobile Applications
- IT 4603:Introduction to Blockchain Technologies
- IT 4673:Virtual IT Systems
- IT 4713:Business Intelligence Systems
- IT 4490:Special Topics in Information Technology
- IT 4493:IT Undergraduate Research

Technology and Innovation Concentration

Complete any four courses for a total of 12 credit hours from the following:

- IT 4603:Introduction to Blockchain Technologies
- IT 4613:Machine Learning Technology in Banking and Investment
- IT 4623:Blockchain Technologies Security & Privacy

- FTA 4001:Foundations of FinTech
- FTA 4002:Financial Technologies
- FTA 4005:Introduction to Financial Data Analytics

5th Course Option

The 5th course can be any FinTech concentration course not already elected or one of the following:

- CSE 4983:CSE Computing Internship
- IT 3503:Foundations of Health Information Technology
- IT 3703:Introduction to Data Analytics and Technology
- IT 4153:Advanced Database
- IT 4333:Network Configuration & Administration
- IT 4403:Advanced Web and Mobile Applications
- IT 4633:IT Technology Systems Internship
- IT 4673:Virtual IT Systems
- IT 4713:Business Intelligence Systems
- IT 4833:Wireless Security
- IT 4843:Ethical Hacking for Effective Defense
- IT 4853:Computer Forensics
- IT 4863:Web and Mobile Application Security
- IT 4893:Internet of Things: Applications and Security
- IT 4490:Special Topics in Information Technology
- IT 4493:IT Undergraduate Research

Free Electives (5 Credit Hours)

Any course in the university curriculum.

Program Total (120 Credit Hours)

Note: All IT, CS, CSE, SWE and CGDD designator courses must have a grade of 'C' or higher. Students must earn a grade of "B" or higher in CSE 1321/L and CSE 1322/L.

Software Engineering, BSSWE

Contact Information

Website: <https://ccse.kennesaw.edu/swegd/programs/bsse.php>

Phone: (470) 578-3790

Email: swe@kennesaw.edu

Program Description

Software Engineering represents the fastest growing segment of software professionals - men and women who solve problems and issues in the development of mission-critical software to meet the

needs of business and industry. The undergraduate program in Software Engineering, which is the only one offered at a public university in the state of Georgia, has the primary objective of preparing a new generation of software developers focused on the engineering of software systems; that is, those systems that meet specified requirements, that are built with mission critical quality levels, and that are within cost and schedule requirements.

Progression Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, progression through the program requires students to successfully complete or transfer the equivalent of CSE 1321, CSE 1321L, CSE 1322 and CSE 1322L with a grade of 'B' or better in all four courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Software Engineering has been accredited by the Engineering Accreditation Commission of ABET since Oct 1, 2012.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I
 - CSE 1321L:Programming and Problem Solving I Laboratory
 - CSE 1322:Programming and Problem Solving II
 - CSE 1322L:Programming and Problem Solving II Laboratory
 - CSE 2300:Discrete Structures for Computing
 - or
 - MATH 2345:Discrete Mathematics
 - TCOM 2010:Technical Writing
 - STAT 2332:Probability and Data Analysis
- One (1) carryover credit hour from Area A2

Major Requirements (49 Credit Hours)

- CSE 3153:Database Systems
 - CSE 3801:Professional Practices and Ethics
 - CS 3305:Data Structures
 - CS 3503:Computer Organization and Architecture
 - CS 3502:Operating Systems
 - SWE 3313:Introduction to Software Engineering
 - SWE 3623:Software Systems Requirements
 - SWE 3633:Software Architecture and Design
 - SWE 3643:Software Testing & Quality Assurance
 - SWE 4324:User-Centered Design
 - SWE 4663:Software Project Management
 - SWE 4713:SWE Application Domain
 - SWE 4724:Software Engineering Capstone Project
- Two (2) carryover credit hours from Area D

Math/ Science Elective (8 Credit Hours)

Select 8 credit hours from the following prefixes: PHYS (excluding PHYS 1111/L and PHYS 1112/L and if PHYS 1111/L & PHYS 1112/L were taken in Area D, students cannot retake their equivalents PHYS 2211/L & PHYS 2212/L respectively), CHEM (excluding CHEM 1151/L, CHEM 1152/L and CHEM 1210) BIOL (excluding eCore BIOL 1011K and BIOL 1012K), MATH at the level of Calculus 1 or higher (excluding MATH 0097, MATH 0098, MATH 0099, MATH 0989, MATH 0998, MATH 0999, MATH 1001, MATH 1101, MATH 1106, MATH 1107, MATH 1111, MATH 1111L, MATH 1112, MATH 1113, MATH 1160, MATH 1190, MATH 1401, MATH 1501, MATH 2202, MATH 2207, MATH 2332, MATH 2345, MATH 2590, MATH 2595, MATH 3295, MATH 3316, MATH 3317, MATH 3318, MATH 3322, MATH 3495, MATH 4495).

Upper Division Electives (6 Credit Hours)

Choose 2 Courses: One from List 1 and one from List 1 or List 2.

List 1

- SWE 3683:Embedded Systems Analysis and Design
- SWE 4633:Cloud Software Development
- SWE 4723:Undergraduate Research Methods
- SWE 4743:Object-Oriented Development
- SWE 4783>User Interaction Engineering
- SWE 4490:Special Topics
- SWE 4803:Independent Study
- CSE 4983:CSE Computing Internship
- CS 4720:Internet Programming
- CS 4524:Cloud Computing
- CS 4612:Software Security
- CS 4632:Modeling and Simulation
- CS 4712>User Interface Engineering
- CS 4514:Real-Time Systems
- CS 4308:Concepts of Programming Languages

List 2

- CS 4504:Parallel and Distributed Computing
- CS 4523:Programming Massively Parallel Processors
- CS 4622:Computer Networks
- CS 4722:Computer Graphics and Multimedia
- CS 4732:Machine Vision
- IT 4823:Information Security Administration & Privacy
IT, CS, CGDD 4000-level courses- coordinator approval

Free Electives (5 Credit Hours)

Any courses in university curriculum.

Program Total (120 Credit Hours)

Certificate

High Performance Computing Certificate

Contact Information

Website: <https://ccse.kennesaw.edu/cs/programs/cert-hpcc.php>

Phone: (470) 578-6005

Program Description

This is a certificate that serves computing and applied computer science majors interested in developing expertise in this area of high-demand and high interest and innovation, with coursework in High Performance Computing Clusters (HPCC) Systems platform, high performance computing and computing languages including ECL, Thor, ROXIE and R. The certificate also serves the students in the BA Applied Computer Science with a certificate that can be used to meet the BA ACS program's requirement of a minor or certificate.

The program is available online, in order to serve non-degree-seeking students including working professionals and those seeking education post graduation expertise.

High Performance Computing Certificate Core Requirements (15 Credit Hours)

- CS 3410:Introduction to Database Systems
- ACST 4320:Data Warehousing and Mining
- ACST 3340:Modern Languages: Theory, Scripting, R, HPC, Fortran
- ACST 3510:Computer Architecture from Foundations to Cloud
- ACST 4570:Cloud Computing and HPCC Systems Platform

HPC Certificate Electives (3 Credit Hours)

Choice of one course from the following:

- ACST 3330:Data Structures and Database Applications
- ACST 3530:Linux Operating Systems and Networking

Program Total (18 Credit Hours)

Robotics Programming Certificate

Contact Information

Website: <https://ccse.kennesaw.edu/cs/programs/cert-robotics-prog.php>

Phone: (470) 578-6005

Program Description

This certificate is designed to provide additional training to supplement degree programs in other related areas. The curriculum combines aspects of engineering and computer science emphasizing design of physical robotic systems and the software necessary for intelligent control. The certificate introduces students to mechanical, electrical, software, and operational aspects of robotic systems. Students gain practical engineering and software development experience in laboratories and automation-type projects.

Required Courses (15 Credit Hours)

- MTRE 3710:Mechatronics Engineering Fundamentals
- MTRE 4001:Modeling and Feedback Control of Dynamic Systems
- MTRE 4002L:Feedback Control Laboratory
- MTRE 4200:Robotics Analysis and Synthesis
- CS 3305:Data Structures

Electives (6 Credit Hours)

Select six credit hours from the following:

- CS 3642:Artificial Intelligence
- CS 4732:Machine Vision
- CS 4267:Machine Learning

Program Total (21 Credit Hours)

Formal Minor

Applied Statistics and Analytics Minor

Contact Information

Website: <https://datascience.kennesaw.edu/degrees-programs/undergraduate-minor.php>

Phone: (470) 578-2409

Program Description

Kennesaw State University (KSU) offers a Minor in Applied Statistics and Analytics. This Minor has been developed to assist KSU students in two ways:

- To help KSU students differentiate themselves in a competitive job market after graduation. In addition to the broad and deep skills that students will develop through the completion of the Minor, most students will also qualify for one of our software certificates.
- To help students prepare for an advanced degree - such as an MBA, Medical School, Law School or other graduate programs.

The Applied Statistics and Analytics minor is the translation of data into information to ultimately support and improve decision making in any discipline. As a result, our emphasis in all of our STAT courses is on APPLICATION - not on Theory. Although Math majors are certainly welcome to pursue the Minor, the Minor courses were developed with the non-Math major in mind.

Pre-requisite: STAT 1401 or ECON 2300 or STAT 3125 or MATH 3332

- Students can officially declare the minor in OwlExpress after enrolling in STAT 3010.

Required Courses (9 Credit Hours)

- STAT 3010:Computer Applications of Statistics
Select One of the Following:
- STAT 3120:Statistical Methods I
- STAT 3125:Biostatistics
- IET 2227:Introduction to Statistics
- ISYE 2600:Probability and Statistics I
- PSYC 3000:Statistical Applications in Psychological Science
Select One of the Following:
- STAT 3130:Statistical Methods II
- IET 3403:Advanced Statistics with Application
- ISYE 3600:Probability and Statistics II

Electives (6 Credit Hours)

Select two of the following:

- IS 4540:Data Mining
- STAT 4025:Clinical Trial Design
- STAT 4030:Programming in R
- STAT 4120:Applied Experimental Design
- STAT 4125:Analysis of Human Studies
- STAT 4210:Applied Regression Analysis
- STAT 4310:Statistical Data Mining
- STAT 4330:Applied Binary Classification
- STAT 4400:Directed Study
- STAT 4490:Special Topics in Statistics
One of the two upper-division electives may consist of 3 credit hours for either:
- STAT 3396:Cooperative Study
or
- STAT 3398:Internship

Program Total (15 Credit Hours)

Computer Game Design & Development Minor

Contact Information

Website: <https://ccse.kennesaw.edu/swegd/programs/minor-cgdd.php>

Phone: (470) 578-3790

Email: swe@kennesaw.edu

Program Description

To be eligible for a minor in Computer Game Design and Development, the student must complete the following courses with a grade of "C" or better. Any upper level (3000+) courses that are required in the major may not be used as credit for the minor. Other upper level CGDD courses may be used as substituted. Students must have at least 9 upper level CGDD hours not required for their major (CGDD courses taken as electives for your major bachelor degree can be used to complete the minor).

Required Courses (10 Credit Hours)

*For students with majors outside CCSE, please meet with CCSE Advisors to discuss the possibility of a prerequisite override.

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CGDD 2012:Fundamentals of Game Design
- CGDD 2012L:Fundamentals of Game Design Lab
- CGDD 4003:Digital Media and Interaction

Upper Division Electives (6 Credit Hours)

Select at least 6 credit hours from the following:

- CGDD 3103:Application Extension and Scripting
 - CGDD 4203:Mobile & Casual Game Development
 - CGDD 4303:Educational and Serious Game Design
 - CGDD 4313:Designing Online Learning Content and Environments
 - CGDD 4490:Advanced Topics
- Any other 3000/4000 level CGDD course.

Program Total (16 Credit Hours)

Computer Science Minor

Contact Information

Website: <https://ccse.kennesaw.edu/cs/programs/minor-cs.php>

Phone: (470) 578-6005

Program Description

The Computer Science Minor is designed to provide basic proficiency in computer science. The requirements focus on programming methodology and skills, software development, relevant mathematical skills, structure techniques, and basic computer science concepts such as computer

organizations and architecture, design and analysis of algorithms, data communications, operating systems, and security.

Students may need to take MATH 1113, MATH 1190, and (MATH 2345 or CSE 2300) in order to satisfy prerequisites for CS courses. Student must earn a "B" or higher in CSE 1321, CSE 1321L , CSE 1322, and CSE 1322L, and a "C" or higher in all remaining courses for the minor. Completing these requirements provides a strong foundation in computer science.

Students who take recommended courses as minor electives will be able to enter into Master of Science in Computer Science (MSCS) at KSU without taking any additional fundamental courses.

Required Courses (11 Credit Hours)

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CSE 1322:Programming and Problem Solving II
- CSE 1322L:Programming and Problem Solving II Laboratory
- CS 3305:Data Structures

Upper Division Electives (6 Credit Hours)

Please select two additional CS 3000-level and/or 4000-level courses.

Recommended Elective Courses for students aiming for the Computer Science, MS at KSU:

- CS 3503:Computer Organization and Architecture
- CS 4306:Algorithm Analysis

Program Total (17 Credit Hours)

Information Technology Minor

Contact Information

Website: <https://ccse.kennesaw.edu/it/programs/minor-it.php>

Phone: (470)-578-3803

Email: itdepartmentinfo@kennesaw.edu

The information technology minor provides students with basic IT skills including programming, web page development, and system administration.

To be eligible for a minor in Information Technology, students must complete the following courses with a grade of "C" or better:

Required Courses (15 Credit Hours)

- CSE 3153:Database Systems
- IT 1113:Programming Principles

- IT 3123:Hardware and Software Concepts
- IT 3203:Introduction to Web Development
- IT 4323:Data Communications & Networking

Program Total (15 Credit Hours)

Software Engineering Minor

Contact Information

Website: <https://ccse.kennesaw.edu/swegd/programs/minor-se.php>

Phone: (470) 578-3790

Email: swe@kennesaw.edu

Program Description

The Software Engineering (SWE) minor is open to all undergraduate students. This minor will help students: differentiate themselves in a competitive job market after graduation and/or prepare for a masters in computing degree (Computer Science, Software Engineering, Information Technology).

Non-major students who desire to enroll in upper-level software engineering courses will additionally need the following prerequisites (3 hours): MATH 1113 (can be completed to satisfy Core Areas A or D), CSE 1321 and CSE 1321L.

Required Courses (7 Credit Hours)

- SWE 3313:Introduction to Software Engineering
- CSE 1322:Programming and Problem Solving II
- CSE 1322L:Programming and Problem Solving II Laboratory

Upper-Division Elective Courses (9 Credit Hours)

- SWE 3623:Software Systems Requirements
 - SWE 3633:Software Architecture and Design
 - SWE 3643:Software Testing & Quality Assurance
 - SWE 4324:User-Centered Design
 - SWE 4783:User Interaction Engineering
 - SWE 4490:Special Topics
- Or any other SWE 3000- or 4000-level course

Program Total (16 Credit Hours)

College of Science and Mathematics

Baccalaureate

Biochemistry, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/chemistry-biochemistry/programs/bs-biochemistry.php>

Phone: (470) 578-6159

Email: chem@kennesaw.edu

Program Description

The Bachelor of Science with a major in Biochemistry is designed to prepare students for graduate school in biochemistry or for a variety of professional schools including medical, veterinary, and dental. This degree also provides training for BS level biochemist positions in industrial, academic, and government laboratories.

The Department of Chemistry and Biochemistry provides American Chemical Society (ACS) approved programs. Students completing a baccalaureate degree that meets the ACS Guidelines will receive an ACS-certified degree. See an academic advisor for more information on the requirements for ACS certification.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1. Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students

must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CHEM 1211:Principles of Chemistry I
 - CHEM 1211L:Principles of Chemistry Laboratory I
 - CHEM 1212:Principles of Chemistry II
 - CHEM 1212L:Principles of Chemistry Laboratory II
 - CHEM 2800:Quantitative Analytical Chemistry
 - CHEM 2800L:Quantitative Analytical Chemistry Laboratory
 - MATH 2202:Calculus II
- One credit hour from Area D1
One credit hour from Area D2

Major Requirements (30 Credit Hours)

- CHEM 3105:Inorganic Chemistry
 - CHEM 3105L:Inorganic Synthesis
 - CHEM 3361:Modern Organic Chemistry I
 - CHEM 3361L:Modern Organic Chemistry Lab I
 - CHEM 3362:Modern Organic Chemistry II
 - CHEM 3362L:Modern Organic Chemistry Lab II
 - CHEM 3501:Biochemistry I: Structure and Function of Biological Macromolecules
 - CHEM 3501L:Biochemistry I Laboratory
 - CHEM 3502:Biochemistry II: Metabolism
 - CHEM 3512L:Biochemistry II laboratory
 - CHEM 3601:Physical Chemistry: Quantum Chemistry and Spectroscopy
 - CHEM 4500K:Methods in Nucleic Acid and Protein Biochemistry
- Any 3000/4000-level CHEM course of at least three credit hours.

Supporting Discipline Courses (29 Credit Hours)

- SCM 2000:Culture and Success in Science and Mathematics
- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
- BIOL 1108:Biological Principles II
- BIOL 1108L:Biological Principles II Laboratory
- BIOL 3300:Genetics
- BIOL 3300L:Genetics Laboratory
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II

Note: If BIOL 1107/1107L/1108/1108L or PHYS2211/2122L/2212/2212L or its equivalency were taken in Area D2, choose any course from these prefixes: ASTR, BIOL, CHEM, EDSM, ENVS, GEOG, GEOL, HON, ISCI, MATH, PHYS (Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L), SCI, STAT, or other course approved by the department chair.

Supporting Discipline Electives

Select six credit hours from the following:

- BIOL 3301K: Introduction to Biotechnology
- BIOL 3317: Pathophysiology
- BIOL 3327: Medical Genetics
- BIOL 3340: Microbiology
- BIOL 3400: Drugs and Biologics: From Conception to Regulatory Approval
- BIOL 3410: Cell Biology
- BIOL 4100K: Molecular Genetics
- BIOL 4411K: Stem Cell Technology
- BIOL 4412K: Cell and Tissue Culture
- BIOL 4420K: Plant Physiology
- BIOL 4440: Toxicology
- BIOL 4455: Case Studies in Forensic Science
- BIOL 4460K: Medical Microbiology
- BIOL 4465: Immunology
- BIOL 4475: Virology
- BIOL 4490: Special Topics in Biology
- BIOL 4500K: Bioinformatics I
- BIOL 4510K: Bioinformatics II
- BIOL 4550: Cancer Biology
- BIOL 4630: Advanced Topics in Cell & Molecular Biology
- STAT 3125: Biostatistics

Free Electives (1 Credit Hour)

Program Total (120 Credit Hours)

Biology, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/bs-biology/>

Phone: (470) 578-5100

Program Description

The program of study in biology leading to a Bachelor of Science degree provides students with the opportunity to pursue a major field of concentration in biology with the necessary specialization to succeed in a wide array of post-baccalaureate opportunities. The following degree tracks include the course work and experience necessary for student success. See an academic advisor for specific course information and important aspects of each of these tracks.

General Biology Track: This track is designed to allow flexibility in preparing students for a multitude of biological roles. Students can design a course of study that will prepare them for work in private sectors, government agencies or for continued graduate education. Due to the variety of options in this track, students are strongly encouraged to meet with an academic advisor early to plan a course of study.

Pre-Professional Track: This track is designed to prepare students for a multitude of post-baccalaureate education in the medical and professional fields. Course specifications exist for students interested in Human Medicine, Veterinary Medicine, Pharmaceutical Sciences, Dentistry, Optometry, and a number of related fields. Given the intense nature of the course requirements for many of these specialties, students are encouraged to talk to an advisor early in their course of study.

Cell, Molecular, and Developmental Biology Track: This track is designed to prepare students for graduate school in a number of sub-disciplines that focus on cellular and sub-cellular processes or use a range of molecular techniques.

Ecology/Environmental Biology Track: This track is designed for students interested in pursuing a career in the field of Ecology or Environmental Biology. Students completing this track will have the knowledge and skills to pursue further graduate education or obtain environmentally-related professional positions in the public and private sector.

Plant Biology Track: This track is designed for students interested in attending graduate school or entering the professional workforce where plants are the principal study organism.

Microbiology Track: This track is designed for students with a strong interest in pursuing professional work or graduate education in microbiology. After completing the track, students will be qualified to sit for certification as Registered Microbiology Specialists in Food Safety and Quality Assurance, Pharmaceutical and Medical Devices, or Specialists in Microbiology.

Biotechnology Track: This track is designed for students interested in pursuing a career in the multitude of biotechnology companies in the Atlanta region and around the world. This track replaces the Biotechnology degree and specifically targets the concepts and techniques necessary to make students marketable across a range of professional opportunities.

Bioinformatics Track: This track is designed to prepare students for professional work or graduate education that uses bioinformatics. Bioinformatics underlies all genomic advances, encompassing principles and techniques for learning from sequence data stored in databases.

Cytogenetics Track: This track is designed to prepare students for a variety of cytogenetic laboratory opportunities, from diagnostic and basic research to graduate studies in molecular cytogenetics. This training program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences¹; students who complete the track are eligible to sit for national certification as a clinical cytogenetic specialist. Students are encouraged to meet with the program director

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- BIOL 1107:Biological Principles I
 - BIOL 1107L:Biological Principles I Laboratory
 - BIOL 1108:Biological Principles II
 - BIOL 1108L:Biological Principles II Laboratory
 - CHEM 1211:Principles of Chemistry I
 - CHEM 1211L:Principles of Chemistry Laboratory I
 - CHEM 1212:Principles of Chemistry II
 - CHEM 1212L:Principles of Chemistry Laboratory II
- Two credit hours carried over from Area D

Major Requirements (26 Credit Hours)

Biology Core Courses (12 Credit Hours)

- BIOL 3300:Genetics
 - BIOL 3300L:Genetics Laboratory
 - BIOL 3370:Ecology
 - BIOL 3370L:Ecology Laboratory
 - BIOL 3410:Cell Biology
 - BIOL 4399:Seminar
- See Note 2

Statistics Requirements (3 Credit Hours)

- STAT 3125:Biostatistics

Organic Chemistry Requirements (8 Credit Hours)

- CHEM 3361:Modern Organic Chemistry I
- CHEM 3361L:Modern Organic Chemistry Lab I
- CHEM 3362:Modern Organic Chemistry II
- CHEM 3362L:Modern Organic Chemistry Lab II

Science and Mathematics Requirement (3 Credit Hours)

- SCM 2000:Culture and Success in Science and Mathematics

Tracks (25 Credit Hours)

Select one of the following track options. Please see advisor for assistance with selecting electives.

General Biology Track

Any 3000 or 4000-level BIOL or ENVS course (with the exception of BIOL 3317 or BIOL 3396).

Laboratory Requirements:

A student must have a minimum of four (4) laboratory courses
(BIOL 3300L and 3370L in the core, plus two upper-level K or L classes here)

Integrative Options:

A student may include up to 4 credit hours of any 3000 or 4000-level
Physics, Chemistry, Math, Statistics, GIS, or SCI 3360, HIST 3377,
POLS 4456, PSY 4410, or BIOL 3398.

See notes 3 and 6.

Pre-Professional Track

Pre-M.D./Dentistry/Optomety/Pharmacy

- BIOL 3340:Microbiology
- BIOL 3340L:Microbiology Laboratory
- BIOL 4431:Human Physiology
- CHEM 3500:Biochemistry

Track Electives

Select 15 credit hours from the following:

See notes 3 and 6

- BIOL 3110L:Directed Methods
- BIOL 3315K:Vertebrate Zoology
- BIOL 3327:Medical Genetics
- BIOL 3375K:Behavioral Biology
- BIOL 3338K:Histology
- BIOL 3400:Drugs and Biologics: From Conception to Regulatory Approval
- BIOL 4115:Parasitology
- BIOL 4350K:Comparative Vertebrate Anatomy
- BIOL 4390K:Developmental Biology
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4431L:Human Physiology Laboratory
- BIOL 4432K:Human Anatomy
- BIOL 4440:Toxicology
- BIOL 4460K:Medical Microbiology
- BIOL 4465:Immunology
- BIOL 4475:Virology
- BIOL 4486:Bioethics
- CHEM 3010:Medicinal Chemistry
- CHEM 3500L:Biochemistry Laboratory

Pre-D.V.M.

- BIOL 4431:Human Physiology
- BIOL 4350K:Comparative Vertebrate Anatomy
- BIOL 3340:Microbiology
- BIOL 3340L:Microbiology Laboratory
- CHEM 3500:Biochemistry

Track Electives

Select 11 credit hours from the following:

See notes 3 and 6

- BIOL 3110L:Directed Methods
- BIOL 3315K:Vertebrate Zoology
- BIOL 3327:Medical Genetics
- BIOL 3338K:Histology
- BIOL 3375K:Behavioral Biology
- BIOL 3400:Drugs and Biologics: From Conception to Regulatory Approval
- BIOL 4115:Parasitology
- BIOL 4390K:Developmental Biology
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4440:Toxicology
- BIOL 4465:Immunology
- BIOL 4475:Virology
- BIOL 4486:Bioethics
- BIOL 4431L:Human Physiology Laboratory
- BIOL 4432K:Human Anatomy
- BIOL 4460K:Medical Microbiology
- CHEM 3010:Medicinal Chemistry
- CHEM 3500L:Biochemistry Laboratory

Cell, Molecular, and Developmental Biology Track

- BIOL 4100K:Molecular Genetics
- BIOL 4390K:Developmental Biology

- CHEM 3500:Biochemistry
- CHEM 3500L:Biochemistry Laboratory
or
- CHEM 3501:Biochemistry I: Structure and Function of Biological Macromolecules
- CHEM 3501L:Biochemistry I Laboratory

Track Electives

Select 13 credit hours from the following:

See notes 3 and 6

- BIOL 3110L:Directed Methods
- BIOL 3301K:Introduction to Biotechnology
- BIOL 3327:Medical Genetics

- BIOL 3338K:Histology
- BIOL 3398:Practical Internship
- BIOL 3340:Microbiology
- BIOL 3340L:Microbiology Laboratory
- BIOL 3400:Drugs and Biologics: From Conception to Regulatory Approval
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4411K:Stem Cell Technology
- BIOL 4412K:Cell and Tissue Culture
- BIOL 4440:Toxicology
- BIOL 4465:Immunology
- BIOL 4475:Virology
- BIOL 4486:Bioethics
- BIOL 4490:Special Topics in Biology
- BIOL 4630:Advanced Topics in Cell & Molecular Biology
- CHEM 3502:Biochemistry II: Metabolism
- CHEM 3540L:Advanced Biochemistry Laboratory
- CHEM 4500K:Methods in Nucleic Acid and Protein Biochemistry

Ecology and Environmental Biology Track

Organismal Courses

Select a minimum of 8 credit hours from the following:

- BIOL 3315K:Vertebrate Zoology
- BIOL 3310K:Invertebrate Zoology
- BIOL 3320K:Plant Morphology
- BIOL 3330K:Biology of the Algae
- BIOL 3335:Natural History of Georgia
- BIOL 3372K:Aquatic Biodiversity
- BIOL 3700K:Ichthyology
- BIOL 4322:Plant Systematics

Concept and Techniques Courses

Select a minimum of 9 credit hours from the following:

See notes 3 and 6

- BIOL 3110L:Directed Methods
- BIOL 3250K:Ecosystem Ecology
- BIOL 3340:Microbiology
- BIOL 3340L:Microbiology Laboratory
- BIOL 3371K:Freshwater Ecology
- BIOL 3375K:Behavioral Biology

- BIOL 3373K:Methods in Aquatic Ecology
- BIOL 3380:Evolutionary Biology
- BIOL 3720:Sustainability at KSU
- BIOL 3650:Marine Biology
- BIOL 4242K:Ecological Genetics
- BIOL 4402:Research Internship
- BIOL 4422K:Plant Ecology
- BIOL 4333:WIKIed Biology
- BIOL 4400:Directed Study
- BIOL 4440:Toxicology
- BIOL 4620:Advanced Topics in Ecology & Evolution
- ENVS 4000K:Wetlands and Mitigation
- GEOG 3900:Biogeography

Electives (8 Credit Hours)

Select 8 credit hours from any 3000 or 4000-level Biology course (with the exception of BIOL 3317, BIOL 3396, or BIOL 3398). A student may include up to 4 credits of any 3000 or 4000-level Physics, Chemistry, Math, Statistics, GIS, or HIST 3377 or POLS 4456.

Plant Biology Track

- BIOL 3320K:Plant Morphology
- BIOL 4322:Plant Systematics
- BIOL 4420K:Plant Physiology
- BIOL 4422K:Plant Ecology

Track Electives

Select 9 credit hours from the following:

See notes 3 and 6.

- BIOL 3110L:Directed Methods
- BIOL 3250K:Ecosystem Ecology
- BIOL 3301K:Introduction to Biotechnology
- BIOL 3330K:Biology of the Algae
- BIOL 3335:Natural History of Georgia
- BIOL 3372K:Aquatic Biodiversity
- BIOL 4100K:Molecular Genetics
- BIOL 4242K:Ecological Genetics
- BIOL 4333:WIKIed Biology
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4412K:Cell and Tissue Culture
- BIOL 4620:Advanced Topics in Ecology & Evolution

- BIOL 4630:Advanced Topics in Cell & Molecular Biology
- BIOL 4490:Special Topics in Biology
- CHEM 3500:Biochemistry
- ENVS 3100K:Soil & Water Science
- ENVS 4000K:Wetlands and Mitigation
- GEOG 3900:Biogeography

Microbiology Track

- BIOL 3340:Microbiology
- BIOL 3340L:Microbiology Laboratory
- BIOL 3341K:Advanced Microbiology

Track Electives

Select 17 credit hours from the following:

- BIOL 3110L:Directed Methods
- BIOL 3301K:Introduction to Biotechnology
- BIOL 4115:Parasitology
- BIOL 3398:Practical Internship
- BIOL 4200:Industrial Microbiology
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4460K:Medical Microbiology
- BIOL 4465:Immunology
- BIOL 4475:Virology
- BIOL 4476:Mycology
- BIOL 4480:Food Microbiology
- BIOL 4490:Special Topics in Biology
- BIOL 4620:Advanced Topics in Ecology & Evolution
- BIOL 4630:Advanced Topics in Cell & Molecular Biology
- BIOL 4635:Advanced Topics in Microbiology
- BIOL 4800K:Diagnostic Microbiology

Biotechnology Track

- BIOL 3301K:Introduction to Biotechnology
 - BIOL 3340:Microbiology
 - BIOL 3340L:Microbiology Laboratory
 - BIOL 4100K:Molecular Genetics

 - CHEM 3500:Biochemistry
 - CHEM 3500L:Biochemistry Laboratory
- or

- CHEM 3501:Biochemistry I: Structure and Function of Biological Macromolecules
- CHEM 3501L:Biochemistry I Laboratory

Track Electives

Select 9 credit hours from the following:

See notes 3 and 6.

- BIOL 3110L:Directed Methods
- BIOL 3341K:Advanced Microbiology
- BIOL 3398:Practical Internship
- BIOL 3400:Drugs and Biologics: From Conception to Regulatory Approval
- BIOL 4110K:Global Biotechnology-Study Abroad
- BIOL 4200:Industrial Microbiology
- BIOL 4400:Directed Study
- BIOL 4402:Research Internship
- BIOL 4411K:Stem Cell Technology
- BIOL 4412K:Cell and Tissue Culture
- BIOL 4455:Case Studies in Forensic Science
- BIOL 4460K:Medical Microbiology
- BIOL 4465:Immunology
- BIOL 4475:Virology
- BIOL 4480:Food Microbiology
- BIOL 4486:Bioethics
- BIOL 4490:Special Topics in Biology
- BIOL 4500K:Bioinformatics I
- BIOL 4510K:Bioinformatics II
- BIOL 4550:Cancer Biology
- BIOL 4630:Advanced Topics in Cell & Molecular Biology
- BIOL 4800K:Diagnostic Microbiology
- CHEM 3502:Biochemistry II: Metabolism
- CHEM 3540L:Advanced Biochemistry Laboratory
- CHEM 3010:Medicinal Chemistry

Bioinformatics Track

- BIOL 4100K:Molecular Genetics
- BIOL 4500K:Bioinformatics I
- BIOL 4510K:Bioinformatics II
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory

- CHEM 3500:Biochemistry
or
- CHEM 3501:Biochemistry I: Structure and Function of Biological Macromolecules

Track Electives

Select 6 credit hours from any 3000 or 4000-level BIOL course (with the exception of BIO 3317, 3396, or 3398). A student may include CHEM 3500L or CHEM 3501L (see note 7).

See notes 3 and 6

Cytogenetics Track

- BIOL 3327:Medical Genetics
 - BIOL 4300K:Chromosome Preparation and Analysis
 - BIOL 4310L:Cytogenetics Practicum
- See note 7

Track Electives

Select 6 credit hours from any 3000 or 4000-level BIOL course (with the exception of BIOL 3317, BIOL 3396, or BIOL 3398). A student may include CHEM 3500 and CHEM 3500L or CHEM 3501 and CHEM 3501L7.

See notes 3 and 6.

Free Electives (9 Credit Hours)

Any credit courses in university curriculum.

Program Total (120 Credit Hours)

Notes:

1. NAACLS: www.naacls.org; 773-714-8880; 5600 North River Road, Suite 720, Rosemont, Illinois 60018-5119
2. BIOL 4399 may only be taken once for credit toward a biology degree.
3. A maximum of 8 hours from BIOL 3110L, BIOL 4400, BIOL 4402, BIOL 4450, ENVS 3110L, and/or ENVS 4400 can be used to satisfy biology upper-level electives.
4. Students planning on taking CHEM 3501/3501L need to take CHEM 2800 and those planning on taking CHEM 4500 need to take CHEM 3501/3501L.
5. A maximum of 6 hours from BIOL 3110, BIOL 4400, BIOL 4402, BIOL 3398, and/or BIOL 4110 can be used in this track. Two of the elective classes must have laboratories. A student may include up to 4 credits of any 3000 or 4000-level Physics, Chemistry, Math, GIS, or SCI 3360, HIST 3377, POLS 4456, PSY 4410, or BIOL 3398.
6. A maximum of 4 credits of BIOL 3398 can count in the Upper-Division Major's Courses. More than 4 credits of BIOL 3398, credit for BIOL 3317, and credit for BIOL 3396 can be applied to Free Electives only.
7. BIOL 4310L is variable credits taken twice for a total of 12 credits.

Chemistry, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/chemistry-biochemistry/programs/bs-chemistry.php>

Phone: (470) 578-6159

Email: chem@kennesaw.edu

Program Description

The Department of Chemistry and Biochemistry provides American Chemical Society (ACS) approved programs. Students completing a baccalaureate degree that meets the ACS Guidelines will receive an ACS-certified degree. All of the degree concentrations could include the course work and experience necessary to satisfy requirements for ACS certification with proper choice of supporting discipline and elective credits. See an academic advisor or the Chemistry department for more information on the requirements for ACS certification and other aspects of these degree concentrations.

ACS Certified Chemistry Concentration: This concentration is designed to prepare students for graduate school in chemistry or the professional workforce and will satisfy the requirements for American Chemical Society certified Bachelor's Degree Programs.

Integrative Chemistry Concentration: This concentration is designed to allow flexibility in choosing elective credits that support individual career goals and/or a KSU Minor.

Forensic Chemistry Concentration: This concentration is designed to prepare students for graduate school or a career in the forensic field.

Pharmaceutical Chemistry Concentration: This concentration is designed to prepare students for pharmacy school while they work towards a degree in Chemistry. Students may also go to graduate school or work in the pharmaceutical industry after completing this concentration. As pharmacy school prerequisites change, students need to be diligent in ensuring they are meeting the requirements of the pharmacy school they wish to attend. The streamlining of both the requirements for a degree in chemistry and the needed prerequisites is best done in consultation with an academic advisor.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

This is an American Chemical Society (ACS) approved program.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CHEM 1211:Principles of Chemistry I
 - CHEM 1211L:Principles of Chemistry Laboratory I
 - CHEM 1212:Principles of Chemistry II
 - CHEM 1212L:Principles of Chemistry Laboratory II
 - CHEM 2800:Quantitative Analytical Chemistry
 - CHEM 2800L:Quantitative Analytical Chemistry Laboratory
 - MATH 2202:Calculus II
- One credit hour from Area D1
One credit hour from Area D2

Major Requirements (33 Credit Hours)

Lower Division Major Requirements (11 Credit Hours)

- SCM 2000:Culture and Success in Science and Mathematics
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II

*If PHYS 2211/2122L/2212/2212L or its equivalency were taken in Area D2, choose any course from these prefixes: ASTR, BIOL, CHEM, EDMS, ENV5, GEOG, GEOL, HON, ISCI, MATH, PHYS (Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L), SCI, STAT, or other course approved by the department chair.

Upper Division Major Requirements (22 Credit Hours)

- CHEM 3000:Chemical Literature
- CHEM 3105:Inorganic Chemistry
- CHEM 3105L:Inorganic Synthesis
- CHEM 3361:Modern Organic Chemistry I
- CHEM 3361L:Modern Organic Chemistry Lab I
- CHEM 3362:Modern Organic Chemistry II
- CHEM 3362L:Modern Organic Chemistry Lab II
- CHEM 3500:Biochemistry *
- CHEM 3601:Physical Chemistry: Quantum Chemistry and Spectroscopy
- CHEM 4310L:Advanced Analytical Chemistry Lab

*Students may substitute CHEM 3501 and CHEM 3502 for CHEM 3500, in which case CHEM 3502 will count as a 3000/4000 level elective.

Concentration Requirement (27 Credit Hours)

ACS Certified Chemistry Concentration (27 Credit Hours)

Required Courses (14 Credits)

- CHEM 3500L:Biochemistry Laboratory
 - CHEM 3601L:Physical Chemistry Lab
 - CHEM 3602:Physical Chemistry: Thermodynamics and Reaction Kinetics
 - CHEM 4300:Instrumental Analytical Chemistry
 - Any 3000/4000-level CHEM course of at least three credit hours.
- Select two credits from one of the following:
- CHEM 4100:Directed Applied Research
 - or
 - CHEM 4120L:Research Methods Laboratory

Supporting Discipline Courses (7 Credit Hours)

- Any 3000-4000 level course from these prefixes: ASTR, BIOL, CHEM, EDSM, ENVS, GEOG, GEOL, HON, ISCI, MATH, PHYS, SCI, STAT, or other 3000-4000 level course approved by the department chair
- MATH 2203:Calculus III

Free Electives (6 Credit Hours)

Any course in university curriculum.

Integrative Chemistry Concentration (27 Credit Hours)

Required Courses (6 Credit Hours)

- Any 3000/4000-level CHEM course of at least three credit hours.
- Select one of the following courses for 3 credit hours:
- CHEM 3030:Pharmaceutical Analytical Chemistry
or
- CHEM 3800:Forensic Analytical Chemistry
or
- CHEM 4300:Instrumental Analytical Chemistry

Integrative Electives (12 Credit Hours)

12 credit hours must be at the 3000-4000 level. Courses from any department (including chemistry) should be taken that integrate the student's chemical interests and career goals. This area could be used for credit toward a KSU Minor program of study.

Free Electives (9 Credit Hours)

Any course in university curriculum.

Forensic Chemistry Concentration (27 Credit Hours)

Required Courses (12 Credit Hours)

- CHEM 3500L:Biochemistry Laboratory
- CHEM 3800:Forensic Analytical Chemistry
- CHEM 4300:Instrumental Analytical Chemistry
- Any 3000/4000-level CHEM course of at least three credit hours.
- Select two credits from one of the following:
- CHEM 3398:Internship
or
- CHEM 4100:Directed Applied Research
or
- CHEM 4120L:Research Methods Laboratory

Supporting Discipline Courses (12 Credit Hours)

- CRJU 1101:Foundations of Criminal Justice
- CRJU 3320:Criminal Investigation
- STAT 3125:Biostatistics
- Any 3000/4000 level course from any department (including chemistry) should be taken that integrate the student's chemical interests and career goals.

Free Electives (3 Credit Hours)

Any course in university curriculum.

Pharmaceutical Chemistry Concentration (27 Credit Hours)

Required Courses (7 Credit Hours)

- CHEM 3010:Medicinal Chemistry
- CHEM 3030:Pharmaceutical Analytical Chemistry
- CHEM 3500L:Biochemistry Laboratory

Supporting Discipline Courses (18 Credit Hours)

- STAT 3125:Biostatistics
- Choose 7 hours from any 3000-4000 level courses CHEM, BIOL, MATH, STAT, PSYC, CRJU, ENVS, PHYS, SCI, MKTG, MGT or other 3000-4000 level course approved by the department chair.

Lower-Division Options

Select 8 hours from the following:

- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
- BIOL 1108:Biological Principles II
- BIOL 1108L:Biological Principles II Laboratory
- BIOL 2221:Human Anatomy & Physiology I
- BIOL 2221L:Human Anatomy & Physiology I Laboratory
- BIOL 2222:Human Anatomy & Physiology II
- BIOL 2222L:Human Anatomy & Physiology II Laboratory

Free Electives (2 Credit Hours)

Any course in university curriculum.

Program Total (120 Credit Hours)

Environmental Science, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/eeob/programs/bs-environmental-science.php>

Phone: (470) 578-5100

Program Description

Environmental Science is a broad and interdisciplinary field primarily concerned with the interrelationships between the lithosphere, the hydrosphere, the atmosphere, and the biosphere. It integrates diverse scientific disciplines such as biology, chemistry, physics, geology, hydrology,

atmospheric science, oceanography, and toxicology. Environmental science also touches on many other disciplines such as engineering, psychology, economics, communications, business, and public policy. Environmental science is very inclusive, because we all interact with the Gradu every single day and it is so critical to our survival.

Kennesaw State University's Bachelor of Science degree with a major in Environmental Science provides students a truly interdisciplinary program drawing on faculty expertise and existing courses in the natural sciences, engineering technology, policy, and law. Students completing this program are prepared to enter into industry, consulting, state agencies, or advanced professional programs in the environmental sciences. Graduates will be educated in assessment and control of pollutants, remediation and restoration of toxic sites, sustainable development, management and conservation of natural resources, and conducting environmental research.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- Lab/Math credit from General Education (2 credit hours)
- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
- BIOL 1108:Biological Principles II
- BIOL 1108L:Biological Principles II Laboratory

- PHYS 1111:Introductory Physics I
- PHYS 1111L:Introductory Physics Laboratory I
or
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I

- GEOL 1121K:Introductory Geosciences I

Major Requirements (55 Credit Hours)

I. Environmental Science Core Courses (24 Credit Hours)

- ENVS 2202K:Introduction to Environmental Science
- BIOL 3300:Genetics
- BIOL 3300L:Genetics Laboratory
- BIOL 3370:Ecology
- BIOL 3370L:Ecology Laboratory

- BIOL 3310K:Invertebrate Zoology
or
- BIOL 3315K:Vertebrate Zoology
or
- BIOL 4422K:Plant Ecology

- BIOL 4486:Bioethics
or
- ENVS 4300:Environmental Ethics

- ENVS 3100K:Soil & Water Science

- ENVS 4399:Environmental Science Seminar
or
- BIOL 4399:Seminar

II. Statistics Requirements (3 Credit Hours)

- STAT 3125:Biostatistics

III. Chemistry Requirements (11 Credit Hours)

- CHEM 3361:Modern Organic Chemistry I
- CHEM 3361L:Modern Organic Chemistry Lab I
- CHEM 3362:Modern Organic Chemistry II
- CHEM 3362L:Modern Organic Chemistry Lab II
- CHEM 3700:Environmental Chemistry

IV. Political Science Requirement (3 Credit Hours)

- POLS 3356:U.S. Environmental Policy & Politics
or
- ENVS 3450:Conservation Biology

V. Surveying Requirement (4 Credit Hours)

- SURV 2110:Introduction to Mapping

VI. Environmental Science Electives (10 Credit Hours)

See footnotes 1 and 2

Choose from the list below:

- BIOL 3110L:Directed Methods
- BIOL 3310K:Invertebrate Zoology
- BIOL 3315K:Vertebrate Zoology
- BIOL 3340:Microbiology
- BIOL 3250K:Ecosystem Ecology
- BIOL 3371K:Freshwater Ecology
- BIOL 3650:Marine Biology
- BIOL 3700K:Ichthyology
- BIOL 3372K:Aquatic Biodiversity
- BIOL 3320K:Plant Morphology
- BIOL 3380:Evolutionary Biology
- BIOL 4115:Parasitology
- BIOL 4400:Directed Study
- BIOL 4422K:Plant Ecology
- CHEM 2800:Quantitative Analytical Chemistry
- CHEM 2800L:Quantitative Analytical Chemistry Laboratory
- CHEM 3701:Atmospheric Chemistry
- ENVS 3110L:Directed Methods
- ENVS 3150K:Environmental Toxicology
- ENVS 3350:Oceanography
- ENVS 3398:Internship
- ENVS 3720:Sustainability at KSU
- ENVS 3730:Natural Resource Management
- ENVS 3450:Conservation Biology
- ENVS 4000K:Wetlands and Mitigation
- ENVS 4400:Directed Study
- STAT 3010:Computer Applications of Statistics
- STAT 3130:Statistical Methods II
- STAT 4120:Applied Experimental Design
- SURV 3421:Geographic Information Systems I

- SURV 4420:Remote Sensing
- SURV 4422:Geographic Information Systems II
- BIOL 4242K:Ecological Genetics

Free Electives (5 Credit Hours)

Any credit courses in the university curriculum

Program Total (120 Credit Hours)

Notes:

1. A maximum of eight credit hours from BIOL 3110L, BIOL 4400, ENVS 3110L, or ENVS 4400 can be used to satisfy environmental science electives.
2. A maximum of four credit hours of ENVS 3398 may be used to satisfy environmental science electives.

Mathematics, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/mathematics/programs/bs-mathematics.php>

Phone: (470) 578-7235 (Marietta); (470) 578-4940 (Kennesaw)

Program Description

The program of study leading to the Bachelor of Science with a major in Mathematics offers formal training in problem solving, critical and quantitative thinking and logical argument. It also provides a solid foundation in the application of analytical, geometrical, and numerical methods to real world problems. This program is highly customizable. In addition to a core set of mathematics courses, the program also requires completion of a concentration or minor that prepares the student for graduate study or for employment in various mathematics and statistics-related fields. The goal of this major is to assist students in acquiring both a deep understanding of mathematics and an ability to apply it to the science and industry.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L*, PHYS 2211/L*, PHYS 2212/L*, BIOL 1107/L, or BIOL 1108/L.

* Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MATH 2202:Calculus II
- MATH 2203:Calculus III
- MATH 2306:Ordinary Differential Equations
- MATH 2390:Introduction to Logic, Set Theory, and Proofs
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory

Major Requirements (26 Credit Hours)

Two carryover hours from General Education Area D requirements.

- SCM 2000:Culture and Success in Science and Mathematics
- MATH 3332:Probability Theory
- MATH 3204:Calculus IV
- MATH 3260:Linear Algebra I
- MATH 4361:Modern Algebra I
- MATH 4381:Real Analysis I
- MATH 3261:Numerical Methods I
or
- MATH 3262:Mathematical Modeling
- MATH 3322:Graph Theory
or
- MATH 3324:Enumerative Combinatorics

Concentration (18 Credit Hours)

Discrete Mathematics and Operations Research

- MATH 3322:Graph Theory
or

- MATH 3324:Enumerative Combinatorics
 - MATH 3272:Introduction to Linear Programming
 - MATH 4260:Linear Algebra II
 - ISYE 4200:Engineering Optimization: Stochastic Decision Models
 - MATH 4362:Modern Algebra II
 - or
 - MATH 4382:Real Analysis II
- Any 3000/4000-level STAT or MATH course of at least three credit hours

Pure Mathematics

- MATH 4260:Linear Algebra II
 - MATH 4362:Modern Algebra II
 - MATH 4382:Real Analysis II
 - MATH 4391:Complex Analysis
 - MATH 4596:Topology
 - or
 - MATH 3496:Elementary Number Theory
- Any 3000/4000-level STAT or MATH course of at least three credit hours

Computational and Applied Mathematics

- MATH 3261:Numerical Methods I
 - or
 - MATH 3262:Mathematical Modeling
 - MATH 4260:Linear Algebra II
 - MATH 4310:Partial Differential Equations
 - MATH 4391:Complex Analysis
 - MATH 4362:Modern Algebra II
 - or
 - MATH 4382:Real Analysis II
- Any 3000/4000-level STAT or MATH course of at least three credit hours

Statistics

- Declare and complete the minor in Applied Statistics and Analytics Minor
- Any 3000/4000-level STAT or MATH course of at least three credit hours

Free Electives (16 Credit Hours)

Students may take any course in the university catalog.

Program Total (120 Credit Hours)

Physics, B.S.

Contact Information

Website: <http://csm.kennesaw.edu/physics/programs/bs-physics.php>

Phone: (470) 578-7215

Program Description

The program of study in physics leading to a Bachelor of Science degree provides students with the opportunity to pursue a major field of concentration in physics with the necessary specialization to succeed in a wide array of post-baccalaureate opportunities. The following degree tracks include the course work and experience necessary for student success. See an academic advisor for specific course information and important aspects of each of these tracks.

General Physics Track: Physics is the study of matter, motion, force and energy across space and time. This area of study is wide-ranging and math-intensive; students who earn Bachelor's degrees in physics develop broad analytical skills and are well prepared to pursue graduate education in physics or related areas of study. Other graduates pursue careers in the engineering, computer science or other STEM-related areas.

Electrical Engineering Track: This BS degree with a concentration in electrical engineering combines the study of physics with 32 credit hours of courses in electrical engineering, plus courses in solid state physics and engineering statics, thus further broadening the students' analytical skills. In addition, adding electrical engineering courses will increase the marketability of the physics student.

Mechanical Engineering Track: This BS degree with a concentration in mechanical engineering combines the study of physics with 30 credit hours of courses in mechanical engineering. This curriculum design helps to further broaden the students' analytical skills. In addition, adding skills developed in mechanical engineering courses will increase the marketability of the physics student.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, BIOL 1107/L, or BIOL 1108/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- PHYS 2211:Principles of Physics I
 - PHYS 2211L:Principles of Physics Laboratory I
 - PHYS 2212:Principles of Physics II
 - PHYS 2212L:Principles of Physics Laboratory II
 - MATH 2202:Calculus II
 - MATH 2203:Calculus III
- Two carryover hour from General Education requirements

Science and Mathematics Requirement (3 Hours)

- SCM 2000:Culture and Success in Science and Mathematics

Major Requirements (25 Credit Hours)

Upper-Division Core Courses: (22 credits)

- PHYS 3011:Introduction to Heat, Light, Sound, and Fluid
- PHYS 3210:Mechanics I
- PHYS 3220:Electromagnetism 1
- PHYS 3260:Mathematical Physics
- PHYS 3710:Modern Physics
- PHYS 3720L:Modern Physics Laboratory
- PHYS 4210:Quantum Mechanics I
- PHYS 4230:Thermal Physics

Math Requirement (3 Credit Hours)

- MATH 2306:Ordinary Differential Equations

Tracks (32 Credit Hours)

General Physics Track

Required Courses (11 Credit Hours)

- PHYS 3410K:Electronics Laboratory
- PHYS 3500K:Computational Physics I
- PHYS 4410K:Advanced Physics Laboratory
- PHYS 4270K:Computational Physics II
- PHYS 3110:Directed Methods
or
- PHYS 4400:Directed Study

Restricted Electives (18 Credit Hours)

Any 3000 or 4000-level course in Physics (PHYS), Math (MATH), Engineering (ENGR, EE, ME), or Computing (CS, CSE). A minimum of 9 of these credits must be in Physics including any 2 of the following: PHYS 4260, PHYS 4220, PHYS 4200.

Free Electives (3 Credit Hours)

Any courses in university curriculum.

Electrical Engineering Track

Required Courses (32 Credit Hours)

- PHYS 4240:Solid State Physics
- EE 2301:Circuit Analysis I
- EE 2302:Circuit Analysis II
- EE 2501:Digital Logic Design
- EE 3701:Signals and Systems
- EE 3401:Engineering Electronics
- EE 4201:Control Systems
- ENGR 2214:Engineering Mechanics - Statics
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory

Mechanical Engineering Track

Required Courses (30 Credit Hours)

- EDG 1211:Engineering Graphics I
- ENGR 2214:Engineering Mechanics - Statics
- ENGR 3122:Engineering Mechanics - Dynamics
- ENGR 3125:Machine Dynamics and Vibrations

- ENGR 3131:Strength of Materials
- ENGR 3132:Strength of Materials Lab
- ENGR 3343:Fluid Mechanics
- ENGR 3345:Fluid Mechanics Laboratory
- ME 4141:Machine Design I
- ME 4250:Computer Aided Engineering
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory

Free Electives (2 Credit Hours)

Any course in the university curriculum

Program Total (120 Credit Hours)

Formal Minor

Biology Minor

Contact Information

Website: <https://csm.kennesaw.edu/biology-minor.php>

Phone: (470) 578-6168

Program Description

A minor in biology is an excellent fit for students interested in integrating the life sciences into their academic pursuit. From students pursuing psychiatry to those interested in biophysics, the biology minor expands a students potential to tackle the large, integrative questions of our day.

To be eligible for a minor in Biology, the student must complete:

- A minimum of 18 semester hours of BIOL
- 9 of the 18 hours in BIOL must be above the 2XXX level
- Students who use BIOL 1107/1107L and/or BIOL 1108/1108L to satisfy Core D requirements cannot use these courses to satisfy requirements of the minor.

Program Total (18 Credit Hours)

Chemistry Minor

Contact Information

Website: <http://csm.kennesaw.edu/chemistry-biochemistry/programs/chemistry-minor.php>

Phone: (470) 578-6159

Email: chem@kennesaw.edu

Program Description

The Chemistry minor consists of 16 semester hours. Courses taken in Core Area F (lower division major requirements) may be counted as coursework in the minor. Courses taken to satisfy Core Areas A through E (general education) may not be counted as coursework in the minor. Students must earn a grade of at least "C" in all course work applicable to a formal minor. When a student's major and minor programs require the same courses, there is no limit on duplicate credit.

We require that a student develop the minor courses with a chemistry advisor and with the approval of the student's major advisor. Biochemistry majors are excluded from earning a minor in Chemistry. At least 6 hours of chemistry must be taken at KSU to satisfy the minor upper-division requirement.

At a minimum, the following courses must be taken as part of a student's course of study for a student to earn a minor in Chemistry.

Required Courses

- CHEM 2800:Quantitative Analytical Chemistry
- CHEM 2800L:Quantitative Analytical Chemistry Laboratory
- CHEM 3361:Modern Organic Chemistry I
- CHEM 3361L:Modern Organic Chemistry Lab I
- Any 3000- or 4000-level CHEM courses to make the total number of CHEM credit hours equal to 16.

Program Total (16 Credit Hours)

Environmental Science Minor

Contact Information

Website: <http://csm.kennesaw.edu/eeob/programs/environmental-science-minor.php>

Phone: (470) 578-5100

Program Description

Environmental Science is an interdisciplinary field that examines relationships between the human and physical landscapes. It recognizes that the two landscapes are inextricably linked, and that altering one will affect the other. Topics such as global climate change, deforestation, wetland degradation, water, soil and air pollution, sustainability, economics, ethics, policies and laws, history, and literature all fall under the domain of environmental studies.

Required Courses (8 Credit Hours)

- ENVS 2202K:Introduction to Environmental Science
- BIOL 3370:Ecology
- BIOL 3370L:Ecology Laboratory

Elective Courses (7 Credit Hours)

- BIOL 3371K:Freshwater Ecology
- BIOL 3650:Marine Biology
- BIOL 4431:Human Physiology
- BIOL 4486:Bioethics
- CHEM 3700:Environmental Chemistry
- CHEM 3710L:Environmental Chemistry Lab
- ENVS 3100K:Soil & Water Science
- ENVS 3350:Oceanography
- GEOG 3315:Introduction to Geographic Information Systems
- POLS 3356:U.S. Environmental Policy & Politics
- ENVS 4300:Environmental Ethics

Program Total (15 Credit Hours)

Mathematics Minor

Contact Information

Website: <https://csm.kennesaw.edu/mathematics/degrees-programs/mathematics-minor.php>

Phone: (470) 678-6327

Program Description

The Minor in Mathematics program consists of fulfilling the general Kennesaw State University requirements for another degree as well as the requirements of the minor. The Math minor documents the student's in-depth knowledge of mathematics and analytical reasoning skills that the study of mathematics promotes.

Program of Study

Required Courses (7 Credit Hours)

- MATH 2203:Calculus III
- MATH 3260:Linear Algebra I

Elective Courses (9 Credit Hours)

Complete 9 additional hours of MATH or STAT courses, with at least 6 of these hours at the 3000 level or above from the following:

- MATH 2306:Ordinary Differential Equations
- MATH 2335:Numerical Methods for Engineers
- MATH 2345:Discrete Mathematics
- MATH 2390:Introduction to Logic, Set Theory, and Proofs

- MATH 3000:Software of Mathematics
- MATH 3204:Calculus IV
- MATH 3261:Numerical Methods I
- MATH 3272:Introduction to Linear Programming
- MATH 3322:Graph Theory
- MATH 3324:Enumerative Combinatorics
- MATH 3332:Probability Theory
- MATH 3405:Probabilistic Foundations of Actuarial Science
- MATH 3496:Elementary Number Theory
- MATH 3696:College Geometry
- MATH 4260:Linear Algebra II
- MATH 4310:Partial Differential Equations
- MATH 4345:Numerical Methods II
- MATH 4361:Modern Algebra I
- MATH 4362:Modern Algebra II
- MATH 4381:Real Analysis I
- MATH 4382:Real Analysis II
- MATH 4391:Complex Analysis
- MATH 4400:Directed Study
- MATH 4490:Special Topics in Mathematics
- MATH 4596:Topology
- MATH 4699:Undergraduate Research
- STAT 2332:Probability and Data Analysis

Program Total (16 Credit Hours)

***Note** *Students may not receive credit for both MATH 2335 Numerical Methods for Engineers and MATH 3261 Numerical Methods I.

*Students may not receive credit for both MATH 2345 Discrete Mathematics and MATH 2390 Introduction to Logic, Set Theory, and Proofs

Physics Minor

Contact Information

Website: <http://csm.kennesaw.edu/physics/programs/physics-minor.php>

Phone: (470) 578-4205

Program Description

To be eligible for a minor in Physics, the student must complete at least 15 hours of course work in physics with at least 10 hours in upper division physics courses.

Program Total (15 Credit Hours)

College of The Arts

Baccalaureate

Apparel and Textiles, B.A.T.

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/academics/degrees-concentrations/degrees-and-concentrations.php>

Phone: (470) 578-6139

Program Description

Fashion is clothing that is in style at a particular time.

The Apparel Textile Technology program strives to ensure that the graduating student acquires conceptual technology based comprehension of the fashion/apparel industry. The curriculum focuses on concept, design, product development, apparel marketing, international sourcing, and merchandising while providing related courses in management and industrial engineering.

The Bachelor of Apparel and Textile degree provides entry to the industry in various professional areas such as:

- Technical Fashion Design
- International Sourcing
- Fashion Forecasting
- Product Development
- Merchandising
- Project Management
- Apparel Marketing
- Product Development
- Entrepreneurship

The program helps students prepare for a fast-paced apparel career through a technology based curriculum combining the advantage of both the classroom and the laboratory.

After earning their degree, students find their niche in areas such as Fashion/apparel design, International sourcing, apparel marketing, merchandising, plant operations and entrepreneurship.

The business of designing, producing, sourcing and distributing sewn products such as apparel is one of the largest and most important industries in the USA and worldwide. Excellent starting salaries, rapid advancement, job diversity, and travel are just some of the benefits to apparel technology graduates. The challenge is for the graduating student to use the skills they have obtained in the major courses along with sound management principles to create apparel better, faster and more profitably.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

- Area D1: STAT 1401

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ATT 1150:The History of Fashion
- ACCT 2101:Principles of Accounting I
- ATT 1200:Apparel Design Graphics
- ATT 1300:International Sourcing
- ATT 1400:Principles of Merchandising
- TCOM 2010:Technical Writing
- One Credit Hour from Area D

Major Requirements (36 Credit Hours)

- ATT 1000:Orientation
- ATT 2301:Apparel Computer-Aided Technical Design I
- ATT 3100:Fashion Merchandising
- ATT 3505:Fabric Formation and Design
- ATT 3600:Apparel Analysis and Product Development
- ATT 3602:Apparel Computer-Aided Technical Design II
- ATT 3800:Fashion Forecasting, Data Analysis & Consumer Trends
- ATT 4444:Quality Assurance for Textiles and Apparel
- ATT 4670:Apparel/Textile Business Practices

- ATT 4750:Advanced Design and Product Development
- ATT 4840:Textile/Apparel Senior Project
- MKTG 3100:Principles of Marketing

Upper-Level Electives (15 Credit Hours)

At least eight hours must be upper-level courses.

- IET 2449:Logistics and Supply Chain Management
- ATT 3150:Visual Merchandising
- ATT 3250:Math Applications in Merchandising
- ATT 3398:ATT Internship
- MGT 4190:International Management
- MGT 4001:Organizational Behavior
- BLAW 2200:Legal and Ethical Environment of Business
- MGT 4002:Human Resource Management
- MGT 3600:Introduction to International Business
- MGT 3100:Management and Behavioral Sciences

Free Electives (9 Credit Hours)

Any courses in university curriculum.

Program Total (120 Credit Hours)

Art, B.F.A.

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/>

Phone: (470) 578-6139

Program Description

The Bachelor of Fine Arts with a major in Art is a professional degree program. The BFA prepares students for a variety of art and art-related careers or graduate school by providing a thorough grounding in fundamental principles and techniques with opportunities for emphasis in one or more arts areas. This degree focuses on intensive work in art or design supported by a program of general studies. The BFA degree offers concentrations in (1) art education (2) art history, (3) ceramics, (4) drawing and painting, (5) graphic communications, (6) illustration, (7) photography and video, (8) printmaking, (9) sculpture, (10) sequential art and (11) textile and surface design.

School of Art and Design Admission Requirements

Each program of study is a sequentially based curriculum beginning the first semester of freshman year. Students who delay entering the major until completion of the General Education Core

Curriculum may prolong their academic careers. All prospective art majors are required to complete an application form and submit a portfolio of their artwork.

Study in visual arts studio courses may not be initiated until the student has been fully accepted by Kennesaw State University and the School of Art and Design as an art major.

Admission to the School of Art and Design is contingent upon portfolio review and acceptance by the school. Applications and portfolios will be reviewed by the School of Art and Design Portfolio Review Committee.

Students may only apply twice for admission into any degree program in the School of Art and Design. If the student fails to gain acceptance after two attempts, they will be advised by SOAAD or supporting university advising services on how to proceed in a new degree program outside of the School of Art and Design.

Concentration Review Requirements

Any B.F.A. student with a major in art must submit a portfolio of work in the concentration area for review and consideration of acceptance to a concentration. Please see School of Art and Design website and the respective concentration coordinator for additional information and instructions.

Transfer Admissions Requirements

Students who wish to transfer into the School of Art and Design from another institution follow the same admission procedures as all new students. Transfer credits for courses in studio art are evaluated by portfolio review. Certain courses that are equivalent to those in the foundation core with a grade of "C" or higher are accepted for transfer students from a USG accredited art program. Beyond these courses, other credits will be reviewed by area concentration faculty.

Admission for Second Bachelor Degree, Change of Major or Dual-Degree Students

These applicants are also required to submit an entry portfolio.

Direct any additional questions about admission requirements by calling the SOAAD Main office at 470-578-6139.

Change of Degree Program

Students who wish to change degree programs in art must reapply and gain admission status to the new degree program.

Placement

The School of Art and Design holds the exclusive authority to determine appropriate admission level placement, credit evaluation of art courses in studio, art history, and art education.

Continuation in Program

All art students must maintain an overall GPA of 2.25 to remain in the program.* Students falling below a 2.25 may have one semester to improve their GPA and continue; if they do not, they are permanently dismissed from the program. Students may not fall below a 2.25 twice; a second incidence will result in immediate and permanent dismissal from the program. BFA in Studio Art majors must maintain a 3.0 GPA in their concentration areas. Falling below a 3.0 in the concentration or making one grade of "F" in the concentration area will result in dismissal from the concentration. Students dismissed from two concentrations may not continue in the BFA program. All students must make timely and reasonable progress toward the degree. Non-enrollment or withdrawal from all classes for two or more consecutive semesters will require reapplication to the School of Art and Design.

*Art Education concentration students must maintain a 2.75 GPA in alignment with requirements of the Teacher Education Program.

Art Education Concentration Additional Requirements

Admission to Teacher Education serves as admission to the art education concentration. Students should apply to concentration fall of sophomore year while taking EDUC 2110 (see program map of concentration on website).

Admission to Teacher Education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

- Coursework:
 - At least 36 semester hours of accredited college coursework. ENGL 1101 and ENGL 1102 with grades of "C" or higher.
 - EDUC 2110* with a grade of "C" or higher, a satisfactory field experience evaluation, *or provide proof of credit from an approved Georgia Pathways Program
- GPA requirements:
 - Achieved a minimum, adjusted, or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all

other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.

- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.
- Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.
- Entrance exams requirements:
 - Pass or exempt* the GACE Program Admission Assessment Tests (test code 210, 211 & 212 or combined test 710)
 - Complete the Georgia Educator Ethics Assessment (test code 360)

Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT, or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu:

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016; OR 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016-June 30, 2019; OR 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) OR 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC). To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Examp (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.

A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower-Division Major Requirements (Area F) (18 Credit Hours)

ART 1100:Two-Dimensional Design and Color Theory

- ART 1150:Drawing I
- ART 1200:Three-Dimensional Design
- ART 2150:Drawing II
- ART 2550:Computer Applications in Art
- ART 2990:Concept, Creativity, and Studio Practice

Entrance Portfolio

All prospective art majors are required to complete an application form and submit a portfolio of their artwork. Admission to degree programs in the School of Art and Design is contingent upon portfolio review and acceptance by the school. Portfolio submission and review must take place before a student can enroll in courses.

Major Requirements (27 Credit Hours)

Distribution Requirements (12 Credit Hours)

Select four from the following outside the concentration area. At least one 2-D and one 3-D area must be represented.

2-D Courses

- ANIM 3600:Foundation Animation
- ART 3015:Electronic Illustration
- ART 3150:Figure Drawing
- ART 3160:Painting I
- ART 3265:Aqueous Media
- ART 3400:Digital Photography
- ART 3410:Film Photography
- ART 3430:Introduction to Video
- ART 3500:Printmaking I
- ART 3550:Bookarts, Letterpress and Papermaking
- ART 3600:Illustration I
- ART 3705:Sequential Art I
- ART 3990:Art As a Public Profession

3-D Courses

- ART 3120:Ceramics I
- ART 3300:Sculpture I
- ART 3320:Jewelry and Small Metals I
- ART 3341:Master Craftsman I
- ART 3430:Introduction to Video
- ART 3550:Bookarts, Letterpress and Papermaking
- ART 3990:Art As a Public Profession

Art History (12 Credit Hours)

Both courses required for all art majors.

- ARH 2750:Ancient through Medieval Art
- ARH 2850:Renaissance through Modern Art

Select two courses from the following:

- ARH 3000:Asian Art and Architecture
- ARH 3100:African Art and Architecture
- ARH 3150:Islamic Art and Architecture
- ARH 3200:Ancient American Art and Architecture

- ARH 3240:Native North American Art and Architecture
- ARH 3250:Latin American Art and Architecture
- ARH 3300:Ancient Egyptian and Nubian Art and Architecture
- ARH 3320:Ancient Near Eastern Art and Architecture
- ARH 3350:Greek Art and Architecture
- ARH 3370:Roman Art and Architecture
- ARH 3400:Medieval Art and Architecture
- ARH 3500:Italian Renaissance Art and Architecture
- ARH 3600:Baroque Art and Architecture
- ARH 3700:Nineteenth-Century Art and Architecture
- ARH 3750:History of American Art and Architecture
- ARH 3840:History of Illustration
- ARH 3850:Art Since 1900
- ARH 3990:Research Methods in Art History
- ARH 4000:Historical Studio Practices
- ARH 4150:African-American Art
- ARH 4400:Directed Study
- ARH 4490:Special Topics in Art History
- ARH 4500:Women in Art
- ARH 4700:Victorian Art and Culture
- ARH 4750:American Landscape Painting
- ARH 4820:History of Printmaking
- ARH 4840:History of Graphic Design
- ARH 4870:History of Photography
- ARH 4880:History of Textiles and Fashion
- ARH 4900:Contemporary Art
- ARED 3304:Teaching Art History, Criticism and Aesthetics

Senior Capstone (3 Credit Hours)

Select one of the following according to the chosen concentration:

- ARED 4990:Senior Seminar and Portfolio
- ARH 4990:Senior Capstone Project
- ART 4980:Senior Portfolio and Applied Project
- ART 4990:Senior Art Seminar and Exhibition
- ATT 4840:Textile/Apparel Senior Project

Fine Arts Concentrations (30 Credit Hours)

Select one of the concentration options below:

Art Education Concentration

- ARED 3306:Materials, Methods and Management for Teaching Art (P-12)
- ARED 3308:Special Populations in Art Education

- ARED 4410: Intercultural Curriculum Model
- ARED 4650: Yearlong Clinical Experience I
- ARED 4660: Yearlong Clinical Experience II
- EDUC 2110: Investigating Critical and Contemporary Issues in Education
- EDUC 2120: Sociocultural Influences on Teaching and Learning
- EDUC 2130: Exploring Teaching and Learning
- ARED 3302: Teaching, Learning and Development in Visual Arts
- EDUC 4610: Introduction to the Yearlong Clinical Experience

Art History Concentration

Required:

- ARH 3990: Research Methods in Art History

ART Electives

Select any three courses ART 3000- or 4000-level for a total of 9 credit hours.

Art History Electives

Select six courses from the lists below, including at least one from each area (18 credit hours):

Ancient-Medieval Art and Architecture

- ARH 3200: Ancient American Art and Architecture
- ARH 3300: Ancient Egyptian and Nubian Art and Architecture
- ARH 3320: Ancient Near Eastern Art and Architecture
- ARH 3350: Greek Art and Architecture
- ARH 3370: Roman Art and Architecture
- ARH 3400: Medieval Art and Architecture
- ARH 3398: Internship
- ARH 4400: Directed Study
- ARH 4490: Special Topics in Art History

Global/Non-Western Art and Architecture

- ARH 3000: Asian Art and Architecture
- ARH 3100: African Art and Architecture
- ARH 3150: Islamic Art and Architecture
- ARH 3240: Native North American Art and Architecture
- ARH 3250: Latin American Art and Architecture
- ARH 3398: Internship
- ARH 4400: Directed Study
- ARH 4490: Special Topics in Art History

Renaissance-Contemporary Art and Architecture

- ARH 3500:Italian Renaissance Art and Architecture
- ARH 3600:Baroque Art and Architecture
- ARH 3700:Nineteenth-Century Art and Architecture
- ARH 3750:History of American Art and Architecture
- ARH 3840:History of Illustration
- ARH 3850:Art Since 1900
- ARH 4000:Historical Studio Practices
- ARH 4150:African-American Art
- ARH 4500:Women in Art
- ARH 4700:Victorian Art and Culture
- ARH 4750:American Landscape Painting
- ARH 4820:History of Printmaking
- ARH 4840:History of Graphic Design
- ARH 4870:History of Photography
- ARH 4900:Contemporary Art
- ARH 3398:Internship
- ARH 4400:Directed Study
- ARH 4490:Special Topics in Art History

Ceramics Concentration

- ART 3120:Ceramics I
- ART 3360:Wheel Throwing
- ART 3380:Mold Making and Slipcasting
- ART 4361:Advanced Ceramics I
- ART 4362:Advanced Ceramics II
- ART 4363:Advanced Ceramics III

Concentration Electives

Select one course (3 credit hours):

- ART 4365:Technical Ceramics
- ART 4364:Advanced Ceramics IV

ART Electives

Select three courses (9 credit hours): Any ART or ARH 3000- or 4000-Level elective

Graphic Communications Concentration

- ART 3011:Typography I
- ART 3015:Electronic Illustration
- ART 3020:Typography II

- ART 3021:Publication Design
- ART 3022:Pre-Press
- ART 4021:Advertising and Packaging
- ART 4022:Web Design for Artists
- ART 4023:Interactive Media Design
- ART 4024:Motion Graphics
- ART 4030:Design Practicum

Illustration Concentration

- ART 3015:Electronic Illustration
- ART 3150:Figure Drawing
- ART 3160:Painting I
- ART 3265:Aqueous Media
- ART 3500:Printmaking I
- ART 3510:Printmaking II
- ART 3600:Illustration I
- ART 3610:Illustration II
- ART 4600:Advanced Illustration
- ART 4256:Advanced Figure I

Painting and Drawing Concentration

- ART 3150:Figure Drawing
- ART 3160:Painting I
- ART 3260:Painting II
- ART 3265:Aqueous Media

Concentration Electives

Select four courses (12 credit hours):

- ART 4036:Concept Art I
- ART 4037:Concept Art II
- ART 4151:Advanced Drawing I
- ART 4152:Advanced Drawing II
- ART 4153:Advanced Drawing III
- ART 4154:Advanced Drawing IV
- ART 4256:Advanced Figure I
- ART 4257:Advanced Figure II
- ART 4258:Advanced Figure III
- ART 4259:Advanced Figure IV
- ART 4266:Advanced Painting I
- ART 4267:Advanced Painting II
- ART 4268:Advanced Painting III
- ART 4269:Advanced Painting IV

ART Electives

Select two courses (6 credit hours): Any ART or ARH 3000- or 4000-Level elective

Photography and Video Concentration

- ART 3400:Digital Photography
- ART 3410:Film Photography
- ART 3430:Introduction to Video
- ART 4411:Advanced Photography I
- ART 4412:Advanced Photography II

Concentration Electives

Select three courses (9 credit hours):

- ART 3420:Lighting for Photography and Video
- ART 4420:Alternative Photographic Processes
- ART 4430:Digital Post-Production Processes
- ART 4440:Large Format Photography

ART Electives

Select two courses (6 credit hours): Any ART or ARH 3000- or 4000-Level elective

Printmaking Concentration

- ART 3150:Figure Drawing
- ART 3500:Printmaking I
- ART 3510:Printmaking II
- ART 3520:Planographic Techniques I
- ART 3550:Bookarts, Letterpress and Papermaking

Concentration Electives

Select four courses (12 credit hours):

- ART 4520:Planographic Techniques II
- ART 3398:Art Internship
- ART 4511:Advanced Printmaking I
- ART 4512:Advanced Printmaking II
- ART 4513:Advanced Printmaking III
- ART 4514:Advanced Printmaking IV
- ART 4551:Advanced Bookarts, Letterpress and Papermaking I
- ART 4552:Advanced Bookarts, Letterpress and Papermaking II

ART Electives

Select one course (3 credit hours): Any ART or ARH 3000- or 4000-level course

Sequential Art Concentration

- ANIM 3620:Storyboarding & Composition
- ART 3015:Electronic Illustration
- ART 3150:Figure Drawing
- ART 3160:Painting I
- ART 3500:Printmaking I
- ART 3600:Illustration I
- ART 3705:Sequential Art I
- ART 3715:Sequential Art II
- ART 4700:Advanced Sequential Art
- ART 4256:Advanced Figure I

Sculpture Concentration

- ART 3300:Sculpture I
- ART 3310:Sculpture II: Welding
- ART 3330:Sculpture III: Foundry
- ART 4311:Advanced Sculpture I
- ART 4312:Advanced Sculpture II
- ART 4313:Advanced Sculpture III

Concentration Electives

Select one course (3 credit hours):

- ART 3120:Ceramics I
- ART 3320:Jewelry and Small Metals I
- ART 3360:Wheel Throwing
- ART 3380:Mold Making and Slipcasting
- ART 3341:Master Craftsman I
- ART 4365:Technical Ceramics

ART Electives

Select three courses (9 credit hours): Any ART or ARH 3000- or 4000-level elective choice

Textiles and Surface Design Concentrations

- ART 3800:Sewing & Construction Techniques
- ART 3810:Sewing Construction Techniques II
- ATT 2301:Apparel Computer-Aided Technical Design I

- ATT 3505: Fabric Formation and Design
- ATT 3510: Surface Design I
- ATT 3602: Apparel Computer-Aided Technical Design II
- ATT 3800: Fashion Forecasting, Data Analysis & Consumer Trends
- ATT 4444: Quality Assurance for Textiles and Apparel
- ATT 4750: Advanced Design and Product Development
- ATT 3398: ATT Internship

Free Electives (3 Credit Hours)

Any course in university curriculum.

Program Total (120 Credit Hours)

Dance, B.A.

Contact Information

Website: <https://arts.kennesaw.edu/dance/index.php>

Phone: (470) 578-7673

Email: ksudance@kennesaw.edu

Program Description

The Department of Dance at Kennesaw State University fosters an environment of creative and scholarly learning by engaging students as active scholar-artists. The program offers a variety of academic and practical experiences aimed at developing a holistic understanding of dance as an art form, encourage students to investigate dance as a method of analysis, a mode of inquiry, and as an aesthetic experience. Partnerships with professional dance and art organizations provide a variety of practical performance experiences for dance students in the community. Collaborative learning with professional artists and scholars, propel dance students into the profession while they are actively developing their skills as dance artists.

The Department of Dance offers a Bachelor of Arts degree with a major in Dance as well as a Dance Minor.

Bachelor of Arts with a Major in Dance

The Department of Dance offers a Bachelor of Arts degree with a major in Dance, with concentrations in modern and ballet. Students must audition to be accepted into the dance major through four regularly scheduled auditions every year. A balanced curriculum of dance theory and practice ensure the departmental commitment to training scholar-artists and preparing students to be successful in the professional world. Through the KSU Dance Company, students have the ability to audition and work at a pre-professional level. Guest artists and choreographers complement our program and expose students to professionals in the field. Our educational partnership with Terminus Modern

Ballet Theatre and community partnerships with several leading dance organizations in the metro Atlanta area, provide internship and employment opportunities for our students and graduates.

Program Admission Requirements

Admission to the Dance program is separate from admission to Kennesaw State University. Students must meet the audition requirements outlined below to pursue this degree.

Audition Requirements: Dance, BA

- All students entering the dance major program must demonstrate technical and artistic aptitude capable of successfully completing the program of study.
- To register for an audition and receive audition information, students must visit the dance website at <https://arts.kennesaw.edu/dance/>.
- Dance minor students are NOT REQUIRED to audition for admission into the dance minor program. This audition requirement is only for students entering the dance major program.
- All dance majors must secure KSU university admission in addition to being accepted into the dance major program. Students who have not yet secured university admission at the time of the dance major audition will be granted admission into the dance major program contingent upon their KSU university admission.
- Students are not required to prepare a solo combination for the audition.
- The audition process will consist of a 45-minute ballet barre, followed by a modern combination.
- Students must bring appropriate footwear to the audition. The program recommends that women wear black leotards and tights and men wear all black dance attire to the audition.
- The dance studio will be available 30 minutes prior to the audition for students to warm-up.
- Following the audition class, students will receive detailed program information and have the opportunity to discuss their interests with the dance faculty.
- Students will be notified about acceptance into the program within two weeks following the audition.

To schedule a special audition (for students who are unable to attend the regularly scheduled audition due to unavoidable circumstances), please contact the KSU Department of Dance Office at 470-578-7673 or e-mail ksudance@kennesaw.edu.

KSU Dance Company Auditions

- Auditions for the KSU Dance Company are reserved for dance majors (fall and spring semesters) and include minors (only spring semesters).
- The auditions are held every semester during the first week of classes.
- Students who are accepted into the company are required to register for DANC 2714 (Dance Performance- 2 credits) immediately following the audition.
- All company members are required to attend a mandatory company technique class. Casting is based on technical ability and schedule availability.
- For additional information visit the dance website at arts.kennesaw.edu/dance/.

Graduation Requirement

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- DANC 2000:Dance History I

11 credit hours of the following:

- DANC 2713:Dance Production *
- Or
- DANC 2714:Dance Performance *
- Or
- DANC 2715:Dance for Camera *
- Or
- DANC 2290:Special Topics in Dance *

Any two of the following:

- DANC 2100:African Dance Technique
- DANC 2200:Tap Dance Technique I
- DANC 2210:Tap Dance Technique II
- DANC 2500:Indian Dance Technique

Note:

* Dance Performance may be taken up to 8 credit hours; Dance Production may be taken up to 4 credit hours; Dance for Camera may be taken up to 2 credit hours; Special Topics in Dance may be taken up to 8 credit hours.

Major Requirements (21 Credit Hours)

Core Requirements (12 Credit Hours)

- DANC 4010:Dance History II
- DANC 4100:Dance Kinesiology
- DANC 4200:Analysis and Criticism of Dance
- DANC 4300:Dance Pedagogy

Senior Seminar (3 Credit Hours)

- DANC 4800:Senior Seminar

Senior Project (3 Credit Hours)

- DANC 4900:Senior Project

Applied Profession Skills (3 Credit Hours)

- DANC 3398:Internship
or
- DANC 4400:Directed Study

Plus one of the following concentrations: (15 Credit Hours)

Ballet Concentration

- DANC 3550:Choreography I
- DANC 4500:Choreography II

Any four from the following for a total of 8 credit hours.

Ballet II, III and Pas de Deux/Pointe can only be taken up to 4 credit hours each; Ballet IV can be taken up to 8 credit hours.

- DANC 3500:Pas de Deux/Pointe
- DANC 3110:Ballet II: Classical Dance Technique
- DANC 3120:Ballet III: Classical Dance Technique
- DANC 3130:Ballet IV: Classical Dance Technique

Plus one of the following:

- DANC 3001:Musical Theater Dance: Styles II
- DANC 3210:Jazz Dance: Styles II
- DANC 3220:Jazz Dance: Styles III
- DANC 3230:Jazz Dance: Style IV
- DANC 3310:Modern Dance II: Contemporary Dance Techniques
- DANC 3320:Modern Dance III: Contemporary Dance Technique
- DANC 3330:Modern Dance IV: Contemporary Dance Technique
- DANC 3600:Dance Improvisation
- DANC 3700:Body Conditioning and Somatics

Modern Concentration

- DANC 3550:Choreography I
- DANC 4500:Choreography II

Any four from the following for a total of 8 credit hours.

Modern II, III and Dance Improvisation can only be taken up to 4 credit hours each; Modern IV can be taken up to 8 credit hours.

- DANC 3310:Modern Dance II: Contemporary Dance Techniques
- DANC 3320:Modern Dance III: Contemporary Dance Technique
- DANC 3330:Modern Dance IV: Contemporary Dance Technique
- DANC 3600:Dance Improvisation

Plus one of the following:

- DANC 3001:Musical Theater Dance: Styles II
- DANC 3110:Ballet II: Classical Dance Technique
- DANC 3120:Ballet III: Classical Dance Technique
- DANC 3130:Ballet IV: Classical Dance Technique
- DANC 3210:Jazz Dance: Styles II
- DANC 3220:Jazz Dance: Styles III
- DANC 3230:Jazz Dance: Style IV
- DANC 3500:Pas de Deux/Pointe
- DANC 3700:Body Conditioning and Somatics

Upper-Division Electives (12 Credit Hours)

12 hours of upper-division studies beyond the major requirements. Lower-division courses may also be approved when appropriate. DANC program requirements cannot be taken again.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Digital Animation, B.F.A

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/academics/degrees-concentrations/degrees-and-concentrations.php>

Phone: (470) 578-6139

Program Description

The Bachelor of Fine Arts with a major in Digital Animation is a professional degree program. The BFA prepares students for a variety of animation and animation-related careers or graduate school by

providing a thorough grounding in fundamental principles and techniques. This degree focuses on intensive work in digital animation supported by a program of general studies.

Entrance Admission Requirements

Each program of study is a sequentially based curriculum beginning the first semester of freshman year. Students who delay entering the major until completion of the General Education Core Curriculum may prolong their academic careers. All prospective art majors are required to complete an application form and submit a portfolio of their artwork. Students entering the School of Art and Design (SOAAD) in fall 2020 or spring 2021 will be the last cohort allowed to take courses before entry portfolio review acceptance into the BFA Digital Animation program.

For students entering KSU in August of 2021, study in visual arts studio courses may not be initiated until the student has been fully accepted by Kennesaw State University and the School of Art and Design as an art major. Note that the BFA Digital Animation entry portfolio review process will be changing for students enrolling for the 2021-22 academic year.

Admission to degree programs in the School of Art and Design is contingent upon portfolio review and acceptance by the department. Applications and portfolios will be reviewed by the School of Art and Design Portfolio Review Committee. Beginning fall of 2021, prospective students will need to submit a portfolio for review in the fall or spring prior to their start date. For example, a student planning to enroll in August 2021 must have submitted and had their portfolio accepted from one of the portfolio review deadlines from the fall 2020 or spring 2021 review cycles. Again, students enrolled prior the fall 2021 semester will still be allowed to take courses before submitting an entry portfolio for the BFA Digital Animation program.

Students may only apply twice for admission into any degree program in the School of Art and Design. If the student fails to gain acceptance after two attempts, they will be advised by SOAAD or supporting university advising services on how to proceed in a new degree program outside of the School of Art and Design.

Program Requirements

Entrance Portfolio

All prospective digital animation art majors are required to complete an application form and submit a portfolio of their artwork. Admission to degree programs in the School of Art and Design is contingent upon portfolio review and acceptance by the school.

Program Portfolio

Any BFA Digital Animation student seeking to move forward with any ANIM Animation Core class after taking ANIM 3600 Foundation Animation must submit a portfolio or works for review and consideration of acceptance to continue in the program.

Entrance Transfer Admissions Requirements

Transfer Admission Students who wish to transfer into the School of Art and Design from another institution follow the same admissions procedure as all new students. Transfer credits for courses in studio art are evaluated by portfolio review. Certain courses that are equivalent to those in the foundation core with a grade of C or higher are accepted for transfer students from a USG accredited art program. Beyond these courses, other credits will be reviewed by area concentration faculty.

Entrance for Second Bachelor Degree, Change of Major or Dual-Degree Admissions Requirements

These applicants are also required to submit an entry portfolio.

Direct any additional questions about admission requirements by calling the SOAAD Main office at 470-578-6139.

Change of Degree Program

Students who wish to change degree programs in art must reapply and gain admission status to the new degree program.

Placement

The School of Art and Design holds the exclusive authority to determine appropriate admission level placement, credit evaluation of art courses in studio, art history, and art education.

Continuation in Program

All art students must maintain an overall GPA of 2.25 to remain in the program. Students falling below a 2.25 may have one semester to improve their GPA and continue; if they do not, they are permanently dismissed from the program. Students may not fall below a 2.25 twice; a second incidence will result in immediate and permanent dismissal from the program. All students must make timely and reasonable progress toward the degree. Non-enrollment or withdrawal from all classes for two or more consecutive semesters will require reapplication to the School of Art and Design.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ART 1100:Two-Dimensional Design and Color Theory
- ART 1150:Drawing I
- ART 1200:Three-Dimensional Design
- ART 2150:Drawing II
- ART 2550:Computer Applications in Art
- ART 2990:Concept, Creativity, and Studio Practice

Major Requirements (57 Credit Hours)

Art History (12 Credit Hours)

Required Courses:

- ARH 2750:Ancient through Medieval Art
- ARH 2850:Renaissance through Modern Art
- ARH 3840:History of Illustration

Select one course from the following:

- ARH 3000:Asian Art and Architecture
- ARH 3100:African Art and Architecture
- ARH 3150:Islamic Art and Architecture
- ARH 3200:Ancient American Art and Architecture
- ARH 3240:Native North American Art and Architecture
- ARH 3250:Latin American Art and Architecture
- ARH 3300:Ancient Egyptian and Nubian Art and Architecture
- ARH 3320:Ancient Near Eastern Art and Architecture
- ARH 3350:Greek Art and Architecture
- ARH 3370:Roman Art and Architecture
- ARH 3400:Medieval Art and Architecture
- ARH 3500:Italian Renaissance Art and Architecture
- ARH 3600:Baroque Art and Architecture
- ARH 3700:Nineteenth-Century Art and Architecture
- ARH 3750:History of American Art and Architecture
- ARH 3850:Art Since 1900
- ARH 3990:Research Methods in Art History
- ARH 4000:Historical Studio Practices
- ARH 4150:African-American Art

- ARH 4400:Directed Study
- ARH 4490:Special Topics in Art History
- ARH 4500:Women in Art
- ARH 4700:Victorian Art and Culture
- ARH 4820:History of Printmaking
- ARH 4840:History of Graphic Design
- ARH 4870:History of Photography
- ARH 4880:History of Textiles and Fashion
- ARH 4900:Contemporary Art

Animation Core (30 Credit Hours)

- ART 3015:Electronic Illustration
- ART 3150:Figure Drawing
- ART 3160:Painting I
- ART 4024:Motion Graphics
- ANIM 3600:Foundation Animation
- ANIM 3620:Storyboarding & Composition
- ANIM 3630:Environments for Animation
- ANIM 3640:Character Development
- ANIM 3650:Digital Animation Production I
- ANIM 3660:Digital Animation Production II

Animation Studio (15 Credit Hours)

Select 15 credits from among the following four repeatable classes.

No single class in this area may be taken more than three times for credit.

- ANIM 4631:3D Animation Modeling I
- ANIM 4632:3D Animation Modeling II
- ANIM 4633:3D Animation Modeling III
- ANIM 4651:Digital Animation Studio I
- ANIM 4652:Digital Animation Studio II
- ANIM 4653:Digital Animation Studio III
- ART 4036:Concept Art I
- ART 4037:Concept Art II
- ART 4256:Advanced Figure I
- ART 4257:Advanced Figure II
- ART 4258:Advanced Figure III
- ART 3398:Art Internship

Senior Review Exhibition (3 Credit Hours)

- ANIM 4660:Senior Animation Reel

Program Total (120 Credit Hours)

Music Education, B.M.

Contact Information

Website: <https://arts.kennesaw.edu/music/academics/bachelor-of-music-education.php>

Phone: (470) 578-6151

Email: musicadm@kennesaw.edu

Program Description

This single field program is designed to prepare music teachers at all grade levels (pre-kindergarten through grade 12). It leads to P-12 teacher certification in the teaching field of music in Georgia. Candidates complete the equivalent of a major in music and a second major in pedagogical studies with an emphasis on teaching music. Students audition for placement into one of four music education concentrations (General Music, Choral, Band, and Orchestra). The Music Education major is offered with applied instruction in piano, voice, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, euphonium, tuba, percussion, guitar, violin, viola, cello, double bass, and harp.

Applied Instruction

All three undergraduate music degrees offer applied instruction in piano, voice, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, euphonium, tuba, percussion, harp, guitar, violin, viola, cello, and double bass. Only certain applied areas are offered in the jazz concentration within the Bachelor of Music in Performance.

Admissions Requirements

Admission to the Music Education program is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

- Students must complete a supplemental application and successful audition with the School of Music, and demonstration of successful academic performance.
- All prospective music majors and minors are required to audition for the faculty on their principal instrument or voice. If the student is not accepted based on their first audition, they may complete a second audition for admission in a later term. If, however, they are not accepted after the second audition, the student may not audition again.
- In order to be eligible for admission to the School of Music, prospective transfer students and current KSU students interested in becoming a music major or minor must have a minimum adjusted GPA of 2.0 to audition and apply for entrance into a music degree program.
- Applied music study may not be initiated until the student has been fully accepted as a major or minor by the School of Music. All students enrolling at KSU for a second degree in music must meet the same departmental audition requirements required of all incoming students.
- Prior to admission to a music degree program, the prospective music major/minor is required to submit an application form to the College of the Arts and present an audition in the principal area of applied concentration.

- Applicants may also elect to audition on more than one instrument or an instrument and voice. Auditions, conducted by the music faculty, are held on the Kennesaw State University campus on specific dates.

Audition Dates and Requirements

Auditions are held on specific dates prior to the term a student begins study as a music student. A description of the audition process, including specific dates and requirements, is detailed in the Supplemental Application for the School of Music located on the School of Music website (www.kennesaw.edu/music). Questions regarding the audition process, audition dates, or requirements can be directed to the College of the Arts Office of Admissions and Student Services, 470-578-6614; COTA-Admissions@kennesaw.edu.

Transfer Admissions Requirements

- Students who wish to transfer into the School of Music from another institution follow the same admissions procedure as all new students (see above).
- Transfer students are placed at an academic level in their principal area of applied concentration based upon the transferable amount of study earned at other institutions and the performance level demonstrated at the audition.
- Transfer credit for all course work is evaluated as quickly as possible after a student has been admitted to KSU. Students who transfer completed baccalaureate applied performance credit to KSU will be required to take additional applied performance study and additional ensemble credit so as to parallel remaining semesters of their designated degree program of study at KSU.
- The School of Music accepts students from other schools and colleges at Kennesaw State University on the same basis as new students and/or transfer students from other institutions. Interested and qualified students are encouraged to transfer into the program.

Change of Concentration

Students who wish to change their applied performance concentration must reaudition and be accepted for applied studio instruction in the new concentration.

Change of Degree Program

Students who wish to change degree programs in music must reaudition and gain admission status to the new degree program.

Placement

The School of Music holds the exclusive authority to determine appropriate admission level placement in the applied concentration, music theory, music history, piano proficiency, and continuity of study. Continuous study in the area of the applied concentration is a requisite. A lapse of two or more semesters of applied study will require an audition for readmittance to the School of Music. General Requirements A variety of School of Music regulations and policies affect music majors and

minors. Included are requirements for recital and ensemble participation, recital and concert attendance, piano proficiency, departmental assessment procedures, and applied juries. Enrollment in an applied area of concentration is required of all music majors as specified in the degree program. Further, music students must be enrolled in an appropriate large ensemble every semester in which the student is enrolled in applied music. The appropriate ensemble director determines a student's large ensemble placement. To earn academic credit toward their degree, music students must earn a grade of "C" or higher in all music courses.

General Requirements

- A variety of School of Music regulations and policies affect music majors and minors.
- Included are requirements for recital and ensemble participation, recital and concert attendance, piano proficiency, departmental assessment procedures, and applied juries.
- Enrollment in an applied area of concentration is required of all music majors as specified in the degree program. Further, music students must be enrolled in an appropriate large ensemble every semester in which the student is enrolled in applied music.
- The appropriate ensemble director determines a student's large ensemble placement. To earn academic credit toward their degree, music students must earn a grade of "C" or higher in all music courses.

Teacher Education Admissions Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or higher.
- EDUC 2110* with a grade of "C" or higher, a satisfactory field experience evaluation *or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessments (test codes 210, 211, & 212 or combined test 710)
- Pass the Georgia Educator Ethics Assessment (test code 360)

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016 OR 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 OR 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) OR 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper level coursework requires a grade of "C" or higher and there must be a successful completion of all field experiences.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MUAP 1111:Applied Lessons
- MUAP 1112:Applied Lessons
- MUSI 1111:Aural Skills I
- MUSI 2212:Aural Skills II
- MUSI 1121:Music Theory I
- MUSI 2122:Music Theory II
- MUAP 2211:Applied Lessons
- MUAP 2212:Applied Lessons
- MUSI 2311:History of Music I

- MUSI 2312:History of Music II

Subject Major Requirements (18 Credit Hours)

- MUSI 3121:Music Theory III
- MUSI 3122:Music Theory IV
- MUSI 3111:Aural Skills III
- MUSI 3112:Aural Skills IV
- MUED 2210:Music Education Colloquium

Piano Requirements (2 Credit Hours)

Select one course from each group listed below.

Group 1

- MUSI 1165:Class Piano I
- MUSI 3333:Accompanying

Group 2

- MUSI 2165:Class Piano II
- MUSI 3333:Accompanying

Large Ensemble (7 Credit Hours)

Placement of students in large ensembles is determined by the appropriate large ensemble directors. Students will take one large ensemble course seven times (MUSI 3343-MUSI 3349) for 1 credit each repeated 7 times for a total of 7 credit hours.

- MUSI 3343:Jazz Ensemble
- MUSI 3344:University Philharmonic Orchestra
- MUSI 3345:Wind Symphony
- MUSI 3346:Chamber Singers
- MUSI 3347:Wind Ensemble
- MUSI 3348:Symphony Orchestra
- MUSI 3349:Chorale

Subject Concentrations (17 Credit Hours)

General Music Concentration (for vocalists)

- MUAP 3311:Applied Lessons
- MUAP 3312:Applied Lessons
- MUAP 4411:Applied Lessons (senior recital required)
- MUSI 3165:Class Piano III
- MUSI 3166:Class Piano IV

- MUSI 3167:Class Piano V
- MUSI 3331:Choral Conducting
- MUSI 3336:Diction for Singers
- MUSI 4434:Vocal Pedagogy for Ensemble Singing
- MUED 3351:String Techniques
- MUED 3353:Guitar Techniques Class
- MUED 3371:Brass/Woodwind/Percussion Techniques
Select one of the following and repeat for a total of 3 credit hours.
- MUSI 3201:Men's Ensemble
or
- MUSI 3202:Women's Choir

General Music Concentration (for pianists)

- MUAP 3311:Applied Lessons (one semester in piano)
- MUAP 3312:Applied Lessons (repeat twice: once in piano and once in voice)
- MUAP 4411:Applied Lessons (repeat twice once in piano with senior recital required and once in voice)
- MUAP 4412:Applied Lessons (one semester in voice)
- MUSI 3331:Choral Conducting
or
- MUSI 3332:Instrumental Conducting
- MUSI 3336:Diction for Singers
- MUSI 4434:Vocal Pedagogy for Ensemble Singing
- MUED 3353:Guitar Techniques Class
- MUED 3355:Voice Techniques Class
- MUED 3371:Brass/Woodwind/Percussion Techniques
Select one of the following courses and repeat for a total of 3 credit hours
- MUSI 3201:Men's Ensemble
or
- MUSI 3202:Women's Choir

General Music Concentration (for all other instruments)

- MUAP 3311:Applied Lessons (one semester in your primary instrument)
- MUAP 3312:Applied Lessons (repeat twice: once in your primary instrument and once in voice)
- MUAP 4411:Applied Lessons (repeat twice: once in your primary instrument with senior recital and once in voice)
- MUSI 3165:Class Piano III
- MUSI 3166:Class Piano IV
- MUSI 3167:Class Piano V
- MUSI 3331:Choral Conducting
or
- MUSI 3332:Instrumental Conducting
- MUSI 4434:Vocal Pedagogy for Ensemble Singing

- MUED 3353:Guitar Techniques Class
- MUED 3355:Voice Techniques Class
- MUED 3351:String Techniques
- MUED 3371:Brass/Woodwind/Percussion Techniques
- MUSI 3201:Men's Ensemble
or
- MUSI 3202:Women's Choir

Choral Concentration (for pianists)

- MUAP 3311:Applied Lessons (one semester of piano)
- MUAP 3312:Applied Lessons (repeat twice: once in piano and once in voice)
- MUAP 4411:Applied Lessons (repeat twice: once in piano with senior recital required and once in voice)
- MUSI 3331:Choral Conducting
- MUSI 3336:Diction for Singers
- MUSI 3350:Advanced Choral Conducting/Literature
- MUSI 4434:Vocal Pedagogy for Ensemble Singing
- MUED 3351:String Techniques
- MUED 3355:Voice Techniques Class
- MUED 3371:Brass/Woodwind/Percussion Techniques
Select one of the following and repeat for a total of 2 credit hours.
- MUSI 3201:Men's Ensemble
or
- MUSI 3202:Women's Choir

Choral Concentration (for vocalists and all other instruments)

- MUAP 3311:Applied Lessons
- MUAP 3312:Applied Lessons
- MUAP 4411:Applied Lessons (senior recital required)
- MUSI 3165:Class Piano III
- MUSI 3166:Class Piano IV
- MUSI 3167:Class Piano V
- MUSI 3331:Choral Conducting
- MUSI 3350:Advanced Choral Conducting/Literature
- MUSI 3336:Diction for Singers
- MUSI 4434:Vocal Pedagogy for Ensemble Singing
- MUED 3351:String Techniques
- MUED 3371:Brass/Woodwind/Percussion Techniques
Select one of the following and repeat for a total of 2 credit hours.
- MUSI 3201:Men's Ensemble
or
- MUSI 3202:Women's Choir

Orchestra Concentration

- MUAP 3311:Applied Lessons
- MUAP 3312:Applied Lessons
- MUAP 4411:Applied Lessons (senior recital required)
- MUSI 3332:Instrumental Conducting
- MUSI 3351:Advanced Instrumental Conducting/Literature
- MUED 3351:String Techniques
- MUED 3353:Guitar Techniques Class
- MUED 3355:Voice Techniques Class
- MUED 3357:Percussion Techniques Class
- MUED 3361:Brass Techniques
- MUED 3365:Woodwind Techniques Class I
- MUED 3366:Woodwind Techniques Class II
- MUED 4000:Advanced Pedagogy and Arranging
Select one of the following for 1 credit hour:
- MUSI 3210:Classical Guitar Ensemble
- MUSI 3211:Jazz Guitar Ensemble
- MUSI 3212:Jazz Combo
- MUSI 3220:Percussion Ensemble
- MUSI 3221:String Ensemble
- MUSI 3222:Woodwind Ensemble
- MUSI 3223:Brass Ensemble
- MUSI 3224:Piano Ensemble
- MUSI 3225:Mixed Chamber

Band Concentration

- MUAP 3311:Applied Lessons
- MUAP 3312:Applied Lessons
- MUAP 4411:Applied Lessons (senior recital required)
- MUSI 3332:Instrumental Conducting
- MUSI 3351:Advanced Instrumental Conducting/Literature
- MUED 3351:String Techniques
- MUED 3355:Voice Techniques Class
- MUED 3357:Percussion Techniques Class
- MUED 3361:Brass Techniques
- MUED 3365:Woodwind Techniques Class I
- MUED 3366:Woodwind Techniques Class II
- MUED 3370:Marching Band Techniques
- MUED 4000:Advanced Pedagogy and Arranging
Select one course from the following for 1 credit hour:
- MUSI 3210:Classical Guitar Ensemble
- MUSI 3211:Jazz Guitar Ensemble
- MUSI 3212:Jazz Combo

- MUSI 3220:Percussion Ensemble
- MUSI 3221:String Ensemble
- MUSI 3222:Woodwind Ensemble
- MUSI 3223:Brass Ensemble
- MUSI 3224:Piano Ensemble
- MUSI 3225:Mixed Chamber

Professional Education (P-12) Requirements (33 Credit Hours)

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- EDUC 2130:Exploring Teaching and Learning
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- INED 4437:Education for Linguistically Diverse Students
- MUED 3308:Music Education for Exceptional Students
- MUED 3301:General Methods, Materials and Curriculum
- MUED 3302:Choral Methods, Materials, and Curriculum
or
- MUED 3303:Instrumental Methods, Materials and Curriculum
- MUED 3305:Educational Literature and Technology
- MUED 4650:Yearlong Clinical Experience I
- MUED 4660:Yearlong Clinical Experience II

Program Total (128 Credit Hours)

Graduation Requirement

Students will be required to pass with a satisfactory grade (S) six semesters of MUAP 1101: Music Symposium, to be eligible to graduate. They must be enrolled every semester in this course until the requirement is accomplished.

Music, B.M.

Contact Information

Website: <https://arts.kennesaw.edu/music/academics/bachelor-of-music-performance.php>

Phone: (470) 578-6151

Email: musicadm@kennesaw.edu

Program Description

This program of study offers a Bachelor of Music degree. Students audition for placement into one of six concentrations (Instrumental Performance, Jazz Performance, Piano Performance, Voice Performance, Composition, and Music Theory).

Applied Instruction

All undergraduate music degrees offer applied instruction in piano, voice, flute, oboe, clarinet, bassoon, saxophone, trumpet, horn, trombone, euphonium, tuba, percussion, harp, guitar, violin, viola, cello, and double bass. Only certain applied areas are offered in the jazz concentration within the Bachelor of Music degree.

Admission Requirements

Admission to the Bachelor of Music program is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

- Students must complete a supplemental application and successful audition with the Bailey School of Music, and demonstration of successful academic performance.
- All prospective music majors and minors are required to audition for the faculty on their principal instrument or voice. If the student is not accepted based on their first audition, they may complete a second audition for admission in a later term. If, however, they are not accepted after the second audition, the student may not audition again.
- In order to be eligible for admission to the Bailey School of Music, prospective transfer students and current KSU students interested in becoming a music major or minor must have a minimum adjusted GPA of 2.0 to audition and apply for entrance into a music degree program.
- Applied music study may not be initiated until the student has been fully accepted as a major or minor by the Bailey School of Music. All students enrolling at KSU for a second degree in music must meet the same departmental audition requirements required of all incoming students.
- Prior to admission to a music degree program, the prospective music major/minor is required to submit an application form to the College of the Arts and present an audition in the principal area of applied concentration. Applicants may also elect to audition on more than one instrument or an instrument and voice. Auditions, conducted by the music faculty, are held on the Kennesaw State University campus on specific dates

Audition Dates and Requirements

Auditions are held on specific dates prior to the term a student begins study as a music student. A description of the audition process, including specific dates and requirements, is detailed in the Supplemental Application for the School of Music located on the Bailey School of Music website (www.kennesaw.edu/music). Questions regarding the audition process, audition dates, or requirements can be directed to the College of the Arts Office of Admissions and Student Services, 470-578-6614; COTA-Admissions@kennesaw.edu.

Transfer Admissions

- Students who wish to transfer into the Bailey School of Music from another institution follow the same admissions procedure as all new students (see above).

- Transfer students are placed at an academic level in their principal area of applied concentration based upon the transferable amount of study earned at other institutions and the performance level demonstrated at the audition.
- Transfer credit for all course work is evaluated as quickly as possible after a student has been admitted to KSU. Students who transfer completed baccalaureate applied performance credit to KSU will be required to take additional applied performance study and additional ensemble credit so as to parallel remaining semesters of their designated degree program of study at KSU.
- The Bailey School of Music accepts students from other schools and colleges at Kennesaw State University on the same basis as new students and/or transfer students from other institutions. Interested and qualified students are encouraged to transfer into the program.

Change of Concentration

Students who wish to change their applied performance concentration must reaudition and be accepted for applied studio instruction in the new concentration.

Change of Degree Program

Students who wish to change degree programs in music must reaudition and gain admission status to the new degree program.

Placement

The Bailey School of Music holds the exclusive authority to determine appropriate admission level placement in the applied concentration, music theory, music history, piano proficiency, and continuity of study. Continuous study in the area of the applied concentration is a requisite. A lapse of two or more semesters of applied study will require an audition for readmittance to the Bailey School of Music.

General Requirements

A variety of Bailey School of Music regulations and policies affect music majors and minors. Included are requirements for recital and ensemble participation, recital and concert attendance, piano proficiency, departmental assessment procedures, and applied juries. Enrollment in an applied area of concentration is required of all music majors as specified in the degree program. Further, music students must be enrolled in an appropriate large ensemble every semester in which the student is enrolled in applied music. The appropriate ensemble director determines a student's large ensemble placement. To earn academic credit toward their degree, music students must earn a grade of "C" or higher in all music courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

This Bachelor of Music curriculum is currently under review by the Commission on Accreditation of the National Association of Schools of Music (NASM).

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MUSI 1121:Music Theory I
- MUSI 2122:Music Theory II
- MUSI 1111:Aural Skills I
- MUSI 2212:Aural Skills II
- MUAP 1121:Applied Lessons
- MUAP 1122:Applied Lessons
- MUSI 2311:History of Music I
- MUSI 2312:History of Music II

Major Requirements (30 Credit Hours)

- MUAP 2221:Applied Lessons
- MUAP 2222:Applied Lessons
- MUSI 3121:Music Theory III
- MUSI 3122:Music Theory IV
- MUSI 3111:Aural Skills III
- MUSI 3112:Aural Skills IV
- MUSI 3320:Form and Analysis
or
- MUSI 3313:Jazz Theory
- MUSI 3000:Technology in Music
- MUSI 3390:Music Entrepreneurship

Piano Requirement

Select one course from each group listed below

Group 1

- MUSI 1165:Class Piano I
- MUSI 3333:Accompanying (all students with piano concentration must take this course)

Group 2

- MUSI 2165:Class Piano II (all students except piano and jazz concentrations must take this course)
- MUSI 3360:Jazz Piano (all non-piano jazz concentration students only)
- MUSI 3333:Accompanying (all student with a piano concentration must take this course)

Large Ensemble Requirement

Placement of students in large ensembles is determined by the appropriate large ensemble directors. Students will take one large ensemble course 8 times (MUSI 3343-MUSI 3349) 1 credit each for a total of 8 credit hours.

- MUSI 3343:Jazz Ensemble
- MUSI 3344:University Philharmonic Orchestra
- MUSI 3345:Wind Symphony
- MUSI 3346:Chamber Singers
- MUSI 3347:Wind Ensemble
- MUSI 3348:Symphony Orchestra
- MUSI 3349:Chorale

Concentrations (30 Credit Hours)

Instrumental Performance Concentration

Required Courses (18 Credit Hours)

- MUSI 3332:Instrumental Conducting
- MUAP 3321:Applied Lessons
- MUAP 3322:Applied Lessons (junior recital required)
- MUAP 4421:Applied Lessons
- MUAP 4422:Applied Lessons (senior recital required)
- MUSI 4435:(Name of Instrument) Pedagogy and Literature

Small Ensemble

Students in the Instrumental Performance concentration will take one small ensemble course from the list below 5 times for 1 credit each. Classical guitarists must take Classical Guitar Ensemble. Percussionists must take Percussion Ensemble.

- MUSI 3210:Classical Guitar Ensemble
- MUSI 3211:Jazz Guitar Ensemble
- MUSI 3212:Jazz Combo
- MUSI 3220:Percussion Ensemble
- MUSI 3221:String Ensemble
- MUSI 3222:Woodwind Ensemble
- MUSI 3223:Brass Ensemble

- MUSI 3225:Mixed Chamber

Concentration Electives (12 Credit Hours)

Chosen from any 3000-4000 level music courses.

Jazz Performance Concentration

Required courses (26 Credit Hours)

- MUSI 3319:History of Jazz
- MUSI 3323:Jazz Arranging
- MUSI 3325:Jazz Forms and Composition
- MUSI 3353:Jazz Improvisation I
- MUSI 3354:Jazz Improvisation II
- MUSI 3355:Jazz Improvisation III
- MUAP 3321:Applied Lessons
- MUAP 3322:Applied Lessons (junior recital required)
- MUAP 4421:Applied Lessons
- MUAP 4422:Applied Lessons (senior recital required)
- MUSI 4436:Jazz Pedagogy

Small Ensemble

Students in the Jazz Performance concentration will take 5 credits of small ensemble as described below:

- MUSI 3211:Jazz Guitar Ensemble (jazz guitarists must take for all 5 credits)
- MUSI 3361:Piano Accompaniment for Jazz Vocalists Required 1 time for Jazz vocalists
- MUSI 3212:Jazz Combo (Jazz vocalists must take this course 4 times, all other jazz instrumentalists must take this course 5 times)

Major Electives (4 Credit Hours)

Choose from any 3000-4000 level music courses.

Piano Performance Concentration

Required Courses (22 Credit Hours)

- MUSI 3331:Choral Conducting
or
- MUSI 3332:Instrumental Conducting
- MUSI 3333:Accompanying (take 2 times)

Students in the Piano concentration will take one small ensemble course from the list below two times for 1 credit each.

- MUSI 3224:Piano Ensemble

or

- MUSI 3225:Mixed Chamber
- MUSI 4413:Piano Literature I
- MUSI 4414:Piano Literature II
- MUSI 4430:Piano Pedagogy I
- MUSI 4431:Piano Pedagogy II
- MUAP 3321:Applied Lessons
- MUAP 3322:Applied Lessons (junior recital required)
- MUAP 4421:Applied Lessons
- MUAP 4422:Applied Lessons (senior recital required)

Major Electives (8 Credit Hours)

Chosen from any 3000-4000 level music courses.

Voice Performance Concentration

Required Courses (28 Credit Hours)

- MUSI 3315:Vocal Literature
- MUSI 3331:Choral Conducting
- MUSI 3334:Italian and English Diction
- MUSI 3335:German and French Diction
- MUSI 3352:Opera Theater (take 6 times)
- MUAP 3321:Applied Lessons
- MUAP 3322:Applied Lessons (junior recital required)
- MUAP 4421:Applied Lessons
- MUAP 4422:Applied Lessons (senior recital required)
- MUSI 4433:Voice Pedagogy

Foreign Language Requirement (6 Credit Hours)

- ITAL 1001:Introduction to Italian Language and Culture I
 - GRMN 1001:Introduction to German Language and Culture I
- or
- FREN 1001:Introduction to French Language and Culture I

Major Electives (2 Credit Hours)

Choose from any 3000-4000 level music courses.

Composition Concentration

Required Courses (22 Credit Hours)

- MUSI 3326:Class Composition I

or

- MUSI 3371:Composition I
- MUSI 3327:Class Composition II

or

- MUSI 3372:Composition II
- MUSI 4471:Composition III
- MUSI 4472:Composition IV
- MUSI 4473:Composition V
- MUSI 3007:Scoring for Media
- MUSI 3324:Instrumentation/Arranging
- MUSI 4420:Counterpoint
- MUSI 4421:Contemporary Analytical and Compositional Techniques
- MUSI 4496:Senior Capstone Music Project

Major Electives (8 Credit Hours)

Choose from any 3000-4000 level music courses.

Music Theory Concentration

Required Courses (23 Credit Hours)

- MUAP 3311:Applied Lessons
 - MUAP 3312:Applied Lessons
 - MUAP 4411:Applied Lessons
 - MUAP 4412:Applied Lessons
 - MUSI 3321:Advanced Ear Training
 - MUSI 3326:Class Composition I
- or
- MUSI 3371:Composition I
 - MUSI 3168:Advanced Keyboard Harmony
 - MUSI 4419:Introduction to Schenker
 - MUSI 4420:Counterpoint
 - MUSI 4421:Contemporary Analytical and Compositional Techniques
 - MUSI 4422:Music Theory Pedagogy
 - MUSI 4496:Senior Capstone Music Project

Major Electives (7 Credit Hours)

Select from any 3000/4000 level music courses

Program Total (120 Credit Hours)

Graduation Requirement

Students will be required to pass with a satisfactory grade (S) six semesters of MUAP 1101: Music Symposium, to be eligible to graduate. They must be enrolled every semester in this course until the requirement is accomplished.

Theatre and Performance Studies, B.A.

Contact Information

Website: <https://arts.kennesaw.edu/theatre/index.php>

Phone: (470) 578-3123

Program Description

The Bachelor of Arts in Theatre and Performance Studies provides undergraduate students with a foundation in theatre and performance studies through the study of a variety of texts and styles, including classical and contemporary plays, musical theatre, folk and literary narratives, performance art, poetry, comedy improv, storytelling, solo performance, and personal narratives. Students choose between concentrations in acting, performance studies, musical theatre or design/technology. Internships with professional organizations and education abroad opportunities are integrated into the curriculum. An innovative season of diverse public performances offers students the opportunity to integrate classroom study with the highest standards of professional practice in research, performance, design, technical theatre, and the creation of original work. The program prepares students for entry into the profession or other related fields and for graduate study in theatre, performance studies, and related fields.

Admission Requirements

This program has specific admission requirements in addition to admission to Kennesaw State University. If you have been accepted to Kennesaw State University, and you are interested in becoming a theatre and performance studies major, please fill out the application. Auditions are not required for acceptance into the program. Students interested in applying to this program must meet the following program requirements:

- A high school GPA requirement of 3.0 or higher is required for first-year freshmen applying to be theatre and performance studies majors.
- A college GPA requirement of 3.0 or higher is required for entering transfers and currently-enrolled KSU students seeking a change in major

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- TPS 1500:Introduction to Theatre Studies
- TPS 1600:Introduction to Performance Studies
- TPS 1713:Stagecraft
- TPS 2713:Theatre Production *Theatre Production must be taken two times for two credits each.
- TPS 2203:Acting I: Principles of Acting
- TPS 2813:Visual Imagination

Major Requirements (24 Credit Hours)

Upper Division Core Requirements (18 Credit Hours)

- TPS 3000:Performing Literature
- TPS 3403:Play Analysis for Production
- TPS 4513:History and Theory I: Ancient through Renaissance Theatre and Performance
- TPS 4999:Senior Seminar: The Scholar Artist
One of the following eight courses:
 - TPS 3493:Performance Art
 - TPS 3093:Performing Folktales and Fairy Tales
 - TPS 3094:Performing Classical Myth
 - TPS 3095:Performing Irish Myth
 - TPS 3193:Performing World Myth
 - TPS 3194:Performing Personal Narrative
 - TPS 3600:Performing Culture
 - TPS 4333:Adapting and Staging Literary TextsAnd one of the following three courses:
 - TPS 4523:History and Theory II: Neoclassical through Romantic Theatre and Performance
 - TPS 4533:History and Theory III: Victorian through Contemporary Theatre and Performance
 - TPS 4543:American Performance Traditions

Applied Professional Sequence (6 Credit Hours)

Students must take a total of 6 hours from the following courses

- TPS 3050:Applied Performance and Production
- TPS 3320:Musical Theatre Performance: Applied Voice
- TPS 3398:Internship
- TPS 4010:Storytelling Practicum

- TPS 4015:Musical Theatre Techniques II
- TPS 4020:Musical Theatre Ensemble
- TPS 4050:Advanced Applied Performance and Production
- TPS 4040:Stage Combat
- TPS 4030:Actor's Studio
- TPS 4400:Directed Study
- TPS 4490:Special Topics
- SA 4490:Upper-division Study Abroad

Plus one of the following concentrations: (12 Credit Hours)

Acting Concentration

- TPS 3223:Acting II: Intermediate Acting
- TPS 3200:The Actor's Voice

Plus two of the following:

- TPS 3213:Acting for the Camera
- TPS 3243:Acting III: Acting Styles
- TPS 4243:Audition Practicum

Performance Studies Concentration

Select any four courses from the following:

- TPS 3093:Performing Folktales and Fairy Tales
- TPS 3094:Performing Classical Myth
- TPS 3095:Performing Irish Myth
- TPS 3193:Performing World Myth
- TPS 3194:Performing Personal Narrative
- TPS 3400:Performance Composition
- TPS 3493:Performance Art
- TPS 3500:Dramaturgy
- TPS 3600:Performing Culture
- TPS 4313:Principles of Directing
- TPS 4323:Directing Styles
- TPS 4333:Adapting and Staging Literary Texts

Design/Technology Concentration

- TPS 3823:Design Skills
- TPS 3853:Period Styles

Plus two of the following:

- TPS 4813:Scene Design

- TPS 4823:Lighting Design for the Stage
- TPS 4833:Costume Design

Musical Theatre Concentration

- TPS 3015:Musical Theatre Techniques I
- TPS 3700:Music Theory for Musical Theatre
- TPS 3713:Acting in Musical Theatre
- DANC 3000:Musical Theatre Dance: Styles I
- TPS 3703:Musical Theatre History and Literature

Related Studies (12 Credit Hours)

Students must take 12 credit hours of any combination of the following: Any 3000/4000 level TPS course not already required or used in the major or concentration. Any 3000/4000 level course in the University curriculum with the following prefixes is pre-approved for Related Studies: TPS, DANC, MUSI, ART, ENGL, FILM, AMST, AADS, GWST, PSYC, SOC, HIST, FL ,FREN, SPAN, ITAL, GERM, JAP, KOR, HEBR, GEOG, ANTH, ARCH,ACCT, ECON, FIN, ENTR, ISA, IS, MKTG, MGMT. Additional approvals may be arranged with an advisor.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Certificate

Apparel Product Development Certificate

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/>

Phone: (470) 578-6139

Program Description

The Fashion Design and Product Development program offers a Certificate in Apparel Product Development. The objective is to provide training and education to members of the apparel industry, graduates of fashion and design schools and other interested parties seeking to improve their skills. The courses may also be applied toward completing the Bachelor of Apparel and Textiles degree.

Requirements

Choose five courses from the following:

- ATT 1300:International Sourcing
- ATT 1400:Principles of Merchandising
- ATT 2301:Apparel Computer-Aided Technical Design I
- ATT 3100:Fashion Merchandising
- ATT 3505:Fabric Formation and Design
- ATT 3600:Apparel Analysis and Product Development
- ATT 3602:Apparel Computer-Aided Technical Design II
- ATT 3800:Fashion Forecasting, Data Analysis & Consumer Trends
- ATT 4444:Quality Assurance for Textiles and Apparel
- ATT 4670:Apparel/Textile Business Practices
- ATT 4750:Advanced Design and Product Development

Program Total (15 Credit Hours)

Formal Minor

Apparel and Textiles Minor

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/>

Phone: (470) 578-6139

Program Description

To be eligible for a minor in Apparel and Textile Technology, the student must complete 15 credit hours from the following courses with at least 9 hours of upper division course work.

Student outcomes (depending on choice of classes taken):

- To prepare graduates with the fundamentals of concept creation, computer-aided design and product development applicable to fashion/apparel industry (ATT2301, ATT3602)
- To assess the issues relative to international product sourcing (ATT1300)
- To understand and interpret apparel/fashion marketing (ATT3600, ATT3800)
- To examine the fundamentals of retail merchandising (ATT3100)
- To augment the student's central concentration through related courses in industrial engineering and business administration (ATT4444, ATT4670, ATT4750)
- To prepare students with the foundation for lifelong learning

Course Requirements:

- ATT 1200:Apparel Design Graphics
- ATT 1300:International Sourcing
- ATT 1400:Principles of Merchandising
- ATT 2301:Apparel Computer-Aided Technical Design I
- ATT 3100:Fashion Merchandising

- ATT 3505:Fabric Formation and Design
- ATT 3600:Apparel Analysis and Product Development
- ATT 3602:Apparel Computer-Aided Technical Design II
- ATT 3800:Fashion Forecasting, Data Analysis & Consumer Trends
- ATT 4444:Quality Assurance for Textiles and Apparel
- ATT 4670:Apparel/Textile Business Practices
- ATT 4750:Advanced Design and Product Development

Program Total (15 Credit Hours)

Art History Minor

Contact Information

Website: <https://arts.kennesaw.edu/visual-arts/>

Phone: (470) 578-6139

Program of Study

The Art History minor program welcomes students who are pursuing any major program of study at Kennesaw State. In their art-historical coursework, students learn about visual culture from a range of periods, regions, and cultures, and they develop skills in critical thinking, communication, and global engagement. The minor program therefore helps students to achieve many career and professional goals.

Note: Students electing an art history minor who are also in the BFA in Art or Digital Animation degree programs must take six additional art history credits beyond those required for the major. These additional credits may count only as free electives in their degree programs.

Required Courses (6 Credit Hours)

- ARH 2750:Ancient through Medieval Art
- ARH 2850:Renaissance through Modern Art

Electives (12 Credit Hours)

Select four from the following:

- ARH 3000:Asian Art and Architecture
- ARH 3100:African Art and Architecture
- ARH 3150:Islamic Art and Architecture
- ARH 3200:Ancient American Art and Architecture
- ARH 3240:Native North American Art and Architecture
- ARH 3250:Latin American Art and Architecture
- ARH 3300:Ancient Egyptian and Nubian Art and Architecture
- ARH 3320:Ancient Near Eastern Art and Architecture

- ARH 3350:Greek Art and Architecture
- ARH 3370:Roman Art and Architecture
- ARH 3400:Medieval Art and Architecture
- ARH 3500:Italian Renaissance Art and Architecture
- ARH 3600:Baroque Art and Architecture
- ARH 3700:Nineteenth-Century Art and Architecture
- ARH 3750:History of American Art and Architecture
- ARH 3840:History of Illustration
- ARH 3850:Art Since 1900
- ARH 3990:Research Methods in Art History
- ARH 4000:Historical Studio Practices
- ARH 4150:African-American Art
- ARH 4500:Women in Art
- ARH 4700:Victorian Art and Culture
- ARH 4750:American Landscape Painting
- ARH 4820:History of Printmaking
- ARH 4840:History of Graphic Design
- ARH 4870:History of Photography
- ARH 4900:Contemporary Art
- ARH 3398:Internship
- ARH 4400:Directed Study
- ARH 4490:Special Topics in Art History

Note: Students electing an art history minor who are also in the BFA in Art or Digital Animation degree programs must take six additional art history credits beyond those required for the major. These additional credits may count only as free electives in their degree programs.

Program Total (18 Credit Hours)

Classical Studies Minor

Contact Information

Website: <https://chss.kennesaw.edu/foreignlanguages/programs/minor-classical.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

This interdisciplinary minor program in the language, culture, and society of Greece and Rome includes courses in anthropology, art history, dance, English, history, Latin, music, philosophy, and theatre and performance studies.

Required Courses (15 Credit Hours)

Students must complete fifteen (15) credit hours of coursework in Classical Studies. At least twelve (12) hours cannot duplicate coursework for their majors, and at least nine (9) hours must be at the upper-division (3000-4000) level.

Choose one course from the following:

- ARH 2750: Ancient through Medieval Art

Choose four from the following, with no more than one directed study

- ANTH 1102: Introduction to Anthropology
- ANTH 3305: Principles of Archaeology
- ARH 2750: Ancient through Medieval Art
- ARH 3300: Ancient Egyptian and Nubian Art and Architecture
- ARH 3320: Ancient Near Eastern Art and Architecture
- ARH 3350: Greek Art and Architecture
- ARH 3370: Roman Art and Architecture
- DANC 2000: Dance History I
- ENGL 3232: Topics in Drama (if classical/classical tradition)
- ENGL 4240: Rhetorical Theory
- ENGL 4380: World Literature Before 1800
- LATN 1001: Introduction to Latin Language and Culture I
- LATN 1002: Introduction to Latin Language and Culture II
- LATN 2001: Intermediate Latin Language and Culture I
- LATN 2002: Intermediate Latin Language and Culture II
- LATN 3500: Topics in Latin Poetry (authors vary; may be repeated for credit)
- LATN 4490: Special Topics in Latin (authors vary; may be repeated for credit)
- LATN 4500: Topics in Latin Prose (authors vary; may be repeated for credit)
- MUSI 2311: History of Music I
- PHIL 3000: Ancient and Medieval Philosophy
- PHIL 4450: Major Figures in Philosophy (if classical/classical tradition)
- TPS 3094: Performing Classical Myth
- TPS 4513: History and Theory I: Ancient through Renaissance Theatre and Performance
- Any department's 4400 Directed Study, if the focus of the class is relevant to Classical Studies and it is approved by the Classical Studies advisor.
- Any department's 4490 Special Topics, if the focus of the class is relevant to Classical Studies and it is approved by the Classical Studies advisor.
- Study abroad credit if the focus is relevant to Classical Studies and is approved by the Classical Studies advisor.
- Transfer credit if the focus is relevant to Classical Studies and is approved by the Classical Studies advisor.

Program Total (15 Credit Hours)

Dance Minor

Contact Information

Website: arts.kennesaw.edu/dance

Phone: (470) 578-7673

Email: KSUDance@kennesaw.edu

Program Description

The dance minor is designed for students who wish to continue their dance training while pursuing another major field of study offered at Kennesaw State University. Of the 15 credit hours required for the dance minor, 9 must be taken at the upper-division level.

Required (3 Credit Hours)

- DANC 2000:Dance History I
or
- DANC 4010:Dance History II

12 Credit Hours from any of the following courses:

- DANC 2100:African Dance Technique
- DANC 2200:Tap Dance Technique I
- DANC 2210:Tap Dance Technique II
- DANC 2500:Indian Dance Technique
- DANC 2713:Dance Production
- DANC 2714:Dance Performance
- DANC 2715:Dance for Camera
- DANC 3000:Musical Theatre Dance: Styles I
- DANC 3001:Musical Theater Dance: Styles II
- DANC 3100:Ballet I: Classical Dance Technique
- DANC 3110:Ballet II: Classical Dance Technique
- DANC 3120:Ballet III: Classical Dance Technique
- DANC 3130:Ballet IV: Classical Dance Technique
- DANC 3200:Jazz Dance: Styles I
- DANC 3210:Jazz Dance: Styles II
- DANC 3220:Jazz Dance: Styles III
- DANC 3230:Jazz Dance: Style IV
- DANC 3300:Modern Dance I: Contemporary Dance Technique
- DANC 3310:Modern Dance II: Contemporary Dance Techniques
- DANC 3320:Modern Dance III: Contemporary Dance Technique
- DANC 3330:Modern Dance IV: Contemporary Dance Technique
- DANC 3500:Pas de Deux/Pointe
- DANC 3550:Choreography I

- DANC 3600:Dance Improvisation
- DANC 3700:Body Conditioning and Somatics
- DANC 4100:Dance Kinesiology
- DANC 4200:Analysis and Criticism of Dance
- DANC 4300:Dance Pedagogy
- DANC 4490:Special Topics
- DANC 4500:Choreography II

Program Total (15 Credit Hours)

Music Minor

Contact Information

Website: <https://arts.kennesaw.edu/music/>

Phone: (470) 578-6151

Program Description

Students must be fully accepted into the School of Music as a minor by 1) being accepted into KSU, 2) completing a supplemental music application and 3) completing a successful audition for the music faculty. In order to graduate with a minor in music on the student permanent record, the student must complete all requirements and submit to the Registrar's Office a completed and approved "Declaration of Formal Minor" form along with the student's petition to graduate. The School of Music approves all music minors and advises students as to all specific requirements of the minor. At least six (6) credits must be done in residence at KSU.

Required Courses (18 Credit Hours)

- MUSI 1111:Aural Skills I
- MUSI 2212:Aural Skills II
- MUSI 1121:Music Theory I
- MUSI 2122:Music Theory II
- MUAP 1101:Music Symposium (taken 4 times, see note below)
- MUAP 3311:Applied Lessons
- MUAP 3312:Applied Lessons
- MUAP 4411:Applied Lessons
- MUAP 4412:Applied Lessons

Choir or Small Ensemble

Students must select one course from the following list of 1 credit hour courses and repeat the course for a total of 2 Credit hours.

- MUSI 3200:Gospel Choir
- MUSI 3201:Men's Ensemble

- MUSI 3202:Women's Choir
- MUSI 3210:Classical Guitar Ensemble
- MUSI 3211:Jazz Guitar Ensemble
- MUSI 3212:Jazz Combo
- MUSI 3220:Percussion Ensemble
- MUSI 3221:String Ensemble
- MUSI 3222:Woodwind Ensemble
- MUSI 3223:Brass Ensemble
- MUSI 3224:Piano Ensemble
- MUSI 3225:Mixed Chamber

Large Ensembles

Placement of students in large ensembles is determined by the appropriate large ensemble directors. Students will repeat one large ensemble course four times for at a total of 4 credit hours. Jazz Ensemble may be used for up to four large ensemble credits only by permission of the Director of Jazz Studies.

- MUSI 3343:Jazz Ensemble
- MUSI 3344:University Philharmonic Orchestra
- MUSI 3345:Wind Symphony
- MUSI 3346:Chamber Singers
- MUSI 3347:Wind Ensemble
- MUSI 3348:Symphony Orchestra
- MUSI 3349:Chorale

Note: Music minors will be required to pass with a satisfactory grade (S) four semesters of MUAP 1101: Music Symposium, to be eligible to graduate. They must be enrolled every semester in this course until the requirement is accomplished.

Program Total (18 Credit Hours)

The Keeping Sights Upward (KSU) Journey Honors College

Formal Minor

Honors Computer Science and Applications Minor

Contact Information

Website: <https://honors.kennesaw.edu/>

Phone: (470) 578-2364

Email: honors@kennesaw.edu

Program Description

The Honors Computer Science Minor is designed to provide a credential to high-achieving Honors students seeking to develop a strong proficiency in data structures, computer architecture, and algorithm analysis. Students may need to take MATH 1113, MATH 1190, and (MATH 2345 or CSE 2300) in order to satisfy prerequisites for CS courses. Student must earn a "B" or higher in CSE 1321, CSE 1321L, CSE 1322, and CSE 1322L, and a "C" or higher in all remaining courses for the minor. Completing these requirements provides a strong foundation in computer science. Students who complete this minor will be eligible to apply for the Master of Science in Computer Science (MSCS) at KSU without taking any additional fundamental courses.

Required Coures (9 Credit Hours)

Students must enroll in an honors section of each of the following:

- CS 3305:Data Structures
- CS 3503:Computer Organization and Architecture
- CS 4306:Algorithm Analysis

Electives (6 Credit Hours)

Select 6 credits from any of the following:

- HON prefix courses
- Honors sections of courses within the College of Computing and Software Engineering College or Southern Polytechnic College of Engineering and Engineering Technology
- Honors contracts in any 3000 or above CS Course
- Any graduate Double Owl courses, CS Courses preferred

Program Total (15 Credit Hours)

President's Emerging Global Scholars Minor

The President's Emerging Global Scholars [PEGS] minor includes Honors courses related to community engagement, global competence, leadership, and professional development. Only students in the President's Emerging Global Scholars cohort may participate. Criteria for admission is a 3.7 GPA, ACT of 25 or an SAT score of 1220. To remain in good standing in PEGS, students must maintain a 3.5 GPA or higher; otherwise they will be ineligible to continue taking courses in the minor.

Required Courses

- HON 3600:Introduction to Community, Service, and Leadership
- HON 3640:Introduction to Civic Engagement
- HON 3301:Honors Interdisciplinary Seminar
- HON 3620:Issues in the Global South
- HON 3660:The Developed World and Global Competency

Program Total (15 Credit Hours)

Non-Degree

University Honors Program

Contact Information

Website: <https://honors.kennesaw.edu/>

Phone: (470) 578-2364

Email: honors@kennesaw.edu

Program Description

Keeping Sights Upward (KSU) Journey Honors College programs offer a community within the university for academically talented, highly motivated students who enjoy lively discussion, creative expression, and intellectual challenge. KSU Journey Honors College offers colloquia, interdisciplinary honors seminars and special topics courses, opportunities for undergraduate research, domestic and international travel experiences, community service, and other innovative experiences designed especially for motivated and high-achieving Honors students. The Honors College collaborates with other academic colleges to offer small honors sections of core courses in seminar-style classes. Graduation as an Honors Scholar requires completion of the University Honors Program, below, as well as a KSU adjusted GPA of 3.25 or better. A secondary designation, Honors in the Major, is described below. Incoming Honors students have the option of applying for the Great Books Honors cohort or the President's Emerging Global Scholars (PEGS) program. Both programs integrate seamlessly into the Honors Scholar or Honors Research Scholar tracks of the University Honors Program. To remain in the PEGS cohort, a student must maintain a minimum GPA of 3.5.

For information about the University Honors Program's admission criteria, application process, and first-year President's Emerging Global Scholar or Great Books cohorts, please visit <http://honors.kennesaw.edu>.

Honors Student Expectations

Honors students are expected to represent the Honors College honorably. Membership in the Honors College is a privilege, not a right. Students who are members of the Honors College are expected to be role models and to strive to exceed standards set by the Kennesaw State University Student Code of Conduct, all other college policies, and of the Honors College. As a result, the standards of behavior for Honors students are higher than those for other students at Kennesaw State University.

These expectations apply to Honors student behavior while in Honors courses and while participating in Honors activities such as meetings, events, service, and travel programs. If misbehavior occurs outside of Honors events, but the Dean, Director, or other member of the Honors College administration determines that the behavior violates the Honors College expectations or adversely affects the program or its reputation, students may be dismissed from the University Honors Program. Behavior that violates the Kennesaw State University Student Code of Conduct will be referred to KSU's Department of Conduct and Academic Integrity as appropriate, in addition to being addressed through the Honors College. Disruptive behavior is defined in the Student Code of Conduct. As the Honors College values academic integrity in particular, any academic dishonesty by an Honors College participant may be grounds for removal from the University Honors Program.

Failure to live up to the behavior expectations of the Honors College can result in a range of consequences. For example, students may be removed or suspended from the University Honors Program, or they may be placed on a probationary status. The consequences will be decided by the Honors Dean and Director, in consultation with other members of the Honors team.

Note:

To remain in good standing in the Honors program, students must complete an approved Honors Learning Experience (HLE) each semester, participate in Honors Advising each Fall and Spring semester, and maintain an adjusted KSU GPA of 3.25. Honors Learning Experiences are defined elsewhere in this document. Students may complete more than one HLE in a semester, and an additional HLE can be banked for a future semester. Only one additional HLE can be placed in the bank at a time; however, students may make up needed HLEs when they enter the program later in their academic career in order to meet the required number for the designation they wish to earn. Honors students must complete the introduction to Honors requirement (HON 1000 or HON 1100) within the first two semesters of joining the University Honors Program.

Honors Research Scholar

To graduate as an Honors Research Scholar, an Honors student must be in good standing with the University Honors Program, satisfy the introduction to Honors requirement (HON 1000 or 1100), complete 6 total HLEs, and submit a fully-approved Honors thesis or other major capstone product that merits a grade of A or B. A student whose major requirements include a senior capstone course or senior seminar may work with the instructor to significantly enhance the thesis or other capstone

product for the class, taking HON 4497 and 4499 for zero credit hours. A student seeking to earn Honors Research Scholar who does NOT have a required capstone course or senior seminar may take HON 4497 and HON 4499 for 0-3 credit hours.

Honors Scholar

To graduate as an Honors Scholar, an Honors student must be in good standing with the University Honors Program, satisfy the introduction to Honors requirement (HON 1000 or 1100), and complete 8 total HLEs.

Honors in the Major

There are two pathways to earn the designation of Honors in the Major. In Pathway 1, students must be in good standing in the University Honors Program, satisfy the introduction to Honors requirement (HON 1000 or 1100), and complete a minimum of two of three required HLEs in their major plus an approved capstone. For Pathway 2, students must be in good standing in the University Honors Program, satisfy the introduction to Honors requirement (HON 1000 or 1100), and complete 5 HLEs to earn this designation, at least three of which HLEs must be related to the major. Departments/Schools may specify additional requirements.

Honors Requirement

Complete one of the following within the first two semester of joining the University Honors Program.

- HON 1000:An Introduction to Honors Education
or
- HON 1100:The First-Year Honors Colloquium: An Introduction to Honors Education

Honors Learning Experiences (HLEs):

- Honors sections of General Education Core Courses
- HON-prefix courses (with the exception of HON 1000, which satisfies the introduction to Honors requirement but does not count as an HLE)
- Honors contracts in non-Honors courses • Graduate courses for Honors students in the Double Owl Program

Honors Senior Capstone Experience (0-4 Credit Hours)

- HON 4497:Honors Senior Capstone Proposal Honors students are recommended to take HON 4497 in their junior year
- HON 4499:Honors Senior Capstone Project

Michael J. Coles College of Business

Academic Policies Specific to the Coles College of Business

A summary of some of the most significant admission, progression, and graduation policies for business majors is provided below. For additional information, visit the Business Undergraduate Advising Center on the fourth floor of the Burruss Building and check other sections of this KSU Undergraduate Catalog.

Requirements for B.B.A. Degree

All business majors should take the following courses as part of their KSU General Education requirements:

MATH 1111 College Algebra (or MATH 1112 - College Trigonometry or MATH 1113 - Precalculus)

All business majors must take a calculus course, which is part of the Coles College Sophomore GPA Requirement (see later section) and also a prerequisite to several business courses. Most students will take the MATH 1111 and MATH 1160 sequence. Students with stronger math aptitudes or backgrounds, or students considering graduate school, should take MATH 1113 and MATH 1190. Students who can start with Calculus should meet with a Coles Professional Advisor to discuss which MATH courses to take.

Leadership and Career Program

The Leadership and Career Program is a sequence of three courses you must complete as part of your B.B.A. degree. This program is designed to help you succeed in your Major and to effectively compete in the job market. The three required courses are:

- BUSA 2150 Discovering My Major and Career
- BUSA 3150 Developing My Career Essentials
- BUSA 4150 Driving My Success

You should take BUSA 2150 as soon as you have completed its prerequisite of ENGL 1101. Successful completion of this course is a requirement for admission to the Coles Undergraduate Professional Program (see later section). The second and third courses cannot be taken until after you are admitted to Coles. BUSA 3150 is a prerequisite for BUSA 4150.

Sophomore GPA Requirement

Before a business major can be admitted to the Coles College Undergraduate Professional Program and enroll in any upper-division business courses (3000-4000 level), she or he must meet the Coles Sophomore GPA Requirement. This involves earning an Adjusted GPA of 3.00 or greater for the following eight courses:

ACCT 2101 Principles of Accounting I

ACCT 2102 Principles of Accounting II

ECON 2106 Principles of Microeconomics

ECON 2105 Principles of Macroeconomics

ECON 2300 Business Statistics

IS 2200 Information Systems & Communications

BLAW 2200 Legal and Ethical Environment of Business

- Regardless of whether the courses are taken at Kennesaw State University or at another acceptable accredited institution, the grades earned will be used to check this GPA requirement. If any of these courses are transferred in and are not awarded three credit hours by KSU, that difference in hours will affect the GPA calculation. A course may be repeated if necessary. However, KSU has limits on the number of course withdrawals a student may have and on the number of times a student may repeat the same course.

Admission to the Coles College Undergraduate Professional Program

Admission to the Coles College Undergraduate Professional Program is separate from admission to Kennesaw State University. Students must successfully complete BUSA 2150 and the Coles College Sophomore GPA Requirement prior to application for admission to Coles. Details about other admission requirements may be obtained from the Business Undergraduate Advising Center (BB 431).

Business majors must apply for and be accepted for admission into the Coles Undergraduate Professional Program in order to take upper-division business courses and to graduate with a B.B.A. degree. The application should be completed and submitted online through your OwlExpress account.

The B.B.A. degree will not be awarded to anyone who has not met the Sophomore GPA Requirement and been admitted to the Coles Undergraduate Professional Program, or to anyone who has not completed our required Leadership and Career Program.

Other KSU Requirements

In order to receive a degree from Kennesaw State University, a student must meet KSU's residency, grade, and graduation requirements. Some of those requirements are summarized here for convenience. Students should check other sections of this KSU Undergraduate Catalog for a complete listing of KSU requirements.

Business majors must earn a minimum of 45 hours of credit in upper-division business courses. Business majors must complete at least 33 hours of business courses in residence at KSU. All business majors except for Accounting must complete at least 12 hours of their Major Field Requirements and Major Field Electives at KSU. Accounting Majors must complete at least 18 hours of their Major Field Requirements and Major Field Electives at KSU. All students must complete at least 20 of the last 30 semester hours immediately preceding graduation at KSU.

Certain B.B.A. courses must be taken at Coles, and there are restrictions on the business courses that may be taken via education abroad options. Students should check with a Coles College Professional Advisor about these restrictions prior to signing up for a study abroad course or semester abroad. Credit for courses taken at other colleges and universities (whether in the U.S. or abroad) will not be given if:

1. the institution does not have acceptable accreditation,
2. the courses were not taken at the same or higher level than comparable courses offered at Kennesaw State University,
3. the courses do not have substantially the same content and rigor, or
4. the courses are too old.

All business majors must earn a grade of "C" or higher in all business courses counted toward their degree. All business majors must earn a grade of "C" or higher in any non-business courses counted in the Major Field section of their degree. Accounting Majors must earn a grade of "B" or higher in ACCT 2101 and ACCT 2102. International Business Majors must earn a grade of "C" or higher in all courses used to satisfy their Foreign Language Requirement and their Education Abroad Requirement.

Students must always meet current course prerequisites, regardless of when they first started at KSU. Always check the most recent KSU Undergraduate Catalog for current course prerequisites. Students will also be expected to meet the current admission requirements for the Coles Undergraduate Professional Program at the time of admission, regardless of when they first started at KSU.

Timeliness of Degree Completion

KSU requires all graduating students to meet the program requirements in a Catalog that is not more than ten years old at the time of graduation. Students who do not complete their degree within ten years of starting at KSU must move up to a more recent Catalog. If a student does not attend continuously and is required by KSU to apply for readmission in order to return, the student will have to move up to the Catalog in effect for the readmission term. In addition, KSU requires students who change majors to move up to the Catalog in effect in the term of change.

Coles requires business majors to successfully complete the B.B.A. degree requirements and graduate within no more than six (6) calendar years after first being admitted to the Coles Undergraduate Professional Program. If a student does not complete the degree within six calendar years, courses may have to be repeated and new B.B.A. program requirements may have to be met prior to graduation.

Baccalaureate

Accounting B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6084

Email: soa@kennesaw.edu

Program Description

The School of Accountancy aspires to be a nationally recognized leader in influencing the accounting profession by educating our students, performing relevant research, and engaging with the profession.

Accounting provides the tools to measure, interpret and communicate economic information for decision-making. A basic understanding of financial and managerial accounting information is necessary for all business majors. Accounting Majors develop their knowledge of accounting within the framework of accounting information systems. The development of a student's technical, communication, computer, critical-thinking, problem-solving, teamwork, and leadership skills are critical consequences of the program.

The School of Accountancy website above will provide more details about the professional opportunities of earning an Accounting degree and the benefits of Certification.

Admission Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Accounting and graduate with an Accounting B.B.A., students must successfully:

- Complete BUSA 2150
- Meet Coles College Sophomore GPA Requirement,
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View academic policies specific to the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

AACSB International

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (51 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (18 Credit Hours)

- ACCT 3100:Intermediate Financial Accounting I
- ACCT 3200:Concepts in Federal Taxation
- ACCT 3300:Accounting Information Systems
- ACCT 4050:Intermediate Financial Accounting II
- ACCT 4150:Auditing and Assurance
- ACCT 4550:Accounting Data Analytics

Major Field Electives (9 Credit Hours)

Select 9 credit hours from the following:

- ACCT 4100:Advanced Financial Accounting
- ACCT 4152:Internal Auditing
- ACCT 4200:Advanced Managerial Accounting
- ACCT 4250:Advanced Taxation
- ACCT 4300:International Accounting
- ACCT 4350:Accounting Systems Audit and Control
- ACCT 4600:Governmental and Not-for Profit Accounting
- ACCT 4700:Valuation of Closely Held Businesses
- ACCT 4800:Fraud and Forensic Accounting
- ACCT 4400:Directed Study
- ACCT 4490:Special Topics in Accounting

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000/4000) course offerings outside the Major, but inside the Coles College of Business. ACCT courses cannot be used here. (A maximum of six hours of credit in Accounting Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

Economics, B.B.A.

Contact Information

Website :<https://coles.kennesaw.edu/economics/index.php>

Phone: (470) 578-6091

Program Description

Economics is the study of business firms; the functioning of regional, national, and global markets; and the development of analytical techniques that aid in decision making and understanding market

behavior. The primary focus is on problem definition, model development, data gathering and analysis, model solution, and report generation in the areas of consumer behavior, business behavior, price determination, resource allocation, production and distribution of goods and services, and policies that affect output, employment, income, trade, growth, and inflation. There is a broad range of intellectual challenges within the economics major. Branches of Economics overlap such diverse areas as politics, finance, history, international business, management, marketing, business operations, and psychology.

The program of study in economics prepares students for careers in management, marketing, business research, economic planning, and human resources with employers in industry, trade, banking, and government. Students are also well prepared for graduate study in economics, law, and business.

Admission Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Economics and graduate with an Economics B.B.A., students must successfully:

- Complete BUSA 2150
- Meet Coles College Sophomore GPA Requirement,
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (51 Credit Hours)

Business Core (27 Credit Hours)

- MATH 1160:Elementary Applied Calculus
- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirement (9 Credit Hours)

- ECON 4510:Microeconomics
- ECON 4610:Macroeconomics

Select one of the following:

- ECON 4310:Economic Development in Global Perspective
- ECON 4410:International Trade and Finance
- FIN 4420:International Financial Management

Major Field Electives (15 Credit Hours)

Select 15 credit hours from the following:

- ECON 4210:Money and Financial Markets
- ECON 4310:Economic Development in Global Perspective
- ECON 4410:International Trade and Finance
- ECON 4530:Public and Urban Economics
- ECON 4550:The Economics of Strategy
- ECON 4400:Directed Study
- ECON 4490:Special Topics in Economics and Quantitative Analysis

A maximum of 6 of the 15 credit hours in Major Field Electives may be selected from the following:

- ECON 4590:Applied Equity Valuation
- ECON 4710:Econometrics
- ECON 4750:Multivariate Data Analysis
- ECON 4760:Business Forecasting
- ECON 4810:Quantitative Decision Models
- ECON 4850:Decision Analysis and Simulation
- FIN 4220:Corporate Finance
- FIN 4260:Short Term Financial Management
- FIN 4320:Fixed Income Securities
- FIN 4360:Investments
- FIN 4420:International Financial Management
- FIN 4520:Financial Derivatives and Financial Engineering
- FIN 4620:Financial Management of Financial Institutions
- FIN 4460:Financial Statement Analysis
- FIN 4490:Special Topics in Finance

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000/4000) course offerings outside the Major, but inside the Coles College of Business. ECON courses cannot be used here. (A maximum of nine hours of credit in Economics Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) See a Coles Staff Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

Guidance for Selecting Electives:

Students should select their Major Field Electives and their Business Electives and Non-Business Electives after careful consideration of career and/or graduate school aspirations. Discussions with faculty are advisable. If you are interested in Econometrics, ECON 4710, MATH 3260, and MATH 3332 are recommended to provide the core skills valuable in the workplace and as prerequisites to graduate studies. Students planning on graduate studies in economics should also take Calculus II (MATH 2202), Calculus III (MATH 2203), and Differential Equations (MATH 3310). However, all of these MATH courses will not fit within the 123 hours of the Economics degree.

Entrepreneurship, B.B.A

Contact Information

Website: <https://coles.kennesaw.edu/management-entrepreneurship/index.php>

Phone: (470)-578-6552

Program Description

The program of study in Entrepreneurship is designed for our students to foster deep thinking, experimentation, observation, and reflection as a means of instigating creativity and action into economic development. The program focus is broad and includes entrepreneurial orientation in a variety of settings including new venture creation, social stewardship, family business, government operations, and corporate endeavors. The goal is for our students to create an entrepreneurial mindset and spirit and the emphasis is on entrepreneurial application rooted in a solid foundation formed by successful organizational practices and theory.

Admissions Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Accounting and graduate with an Accounting B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (48 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (12 Credit Hours)

- ENTR 4001:Entrepreneurial Mind
- ENTR 4002:Venture Creation
- ENTR 4003:Venture Funding
- ENTR 4004:Venture Commercialization

Major Field Electives (12 Credit Hours)

Select 12 credit hours from the following courses:

- ACCT 4700:Valuation of Closely Held Businesses
 - BUSA 3500:Culture & International Business
 - HMGT 3300:Introduction to Hospitality
 - FIN 4260:Short Term Financial Management
 - MGT 4123:Family Business Management
 - MGT 4124:Franchise Management
 - MGT 4130:Commercial Real Estate Ventures
 - MGT 4173:Human Resource Selection
 - MGT 4185:Technology Management
 - MGT 4200:Family Business Consulting
 - MGT 4850:Managing Process Improvement
 - MKTG 3410:Professional Selling
 - MKTG 4520:Social Media Marketing
 - MKTG 4666:Marketing for Entrepreneurs
 - MKTG 4850:Business to Business Marketing
- Any ENTR 4000 level course

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000-4000) course offerings outside the Major, but inside the Coles College of Business. ENTR courses cannot be used here. (A maximum of nine hours of credit in Entrepreneurship Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) See a Coles Staff Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Non-Business Electives (3 Credit Hours)

Three hours of credit from any lower-division (1000/2000) or upper-division (3000/4000) non-business courses offered at Kennesaw State.

Program Total (120 Credit Hours)

Finance, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6091

Email: finance@kennesaw.edu

Program Description

There is a broad range of intellectual challenges within the field of finance which integrates and applies principles and concepts drawn from accounting, economics, business operations, and quantitative analysis in a global business environment. Finance is an analytical discipline dealing with the acquisition and distribution of funds, financial statement analysis, security analysis, risk assessment, valuation of assets and liabilities, functioning of financial markets, and management of investments, acquisitions, funds, assets, liabilities, risk, businesses, and financial institutions.

The program in finance prepares students for careers as bankers, financial managers, stockbrokers, financial analysts, portfolio managers, financial consultants, investment bankers, and financial planners. Students are also well prepared for graduate study in law and business.

Admission Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Finance and graduate with a Finance B.B.A., all business majors must successfully

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. In order to be approved to take upper-division business courses and graduate with a B.B.A. degree. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Specific General Education Core Curriculum Requirements for This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (51 Credit Hours)

Business Core (27 Credit Hours)

- MATH 1160:Elementary Applied Calculus
- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (9 Credit Hours)

FIN 4220:Corporate Finance

- FIN 4360:Investments

Select one of the following:

- FIN 4420:International Financial Management
- ECON 4310:Economic Development in Global Perspective
- ECON 4410:International Trade and Finance

Major Field Electives (15 Credit Hours)*

Group A - Select 12 credit hours from the following:

- FIN 4260:Short Term Financial Management
- FIN 4320:Fixed Income Securities
- FIN 4400:Directed Study
- FIN 4460:Financial Statement Analysis
- FIN 4490:Special Topics in Finance
- FIN 4520:Financial Derivatives and Financial Engineering
- FIN 4560:Behavioral Finance
- FIN 4590:Applied Equity Valuation
- FIN 4620:Financial Management of Financial Institutions
- FIN 4660:Advanced Corporate Finance
- INS 4500:Principles of Risk Management and Insurance
- RE 4500:Real Estate Finance
- FTA 4100:Introduction to Information Security for FinTech
- FTA 4003:Commercial Banking and FinTech

Group B - Select one (3 credit hours) of the following:

- ECON 4210:Money and Financial Markets
- ECON 4400:Directed Study
- ECON 4510:Microeconomics
- ECON 4550:The Economics of Strategy
- ECON 4610:Macroeconomics
- ECON 4710:Econometrics
- ECON 4750:Multivariate Data Analysis
- ECON 4810:Quantitative Decision Models
- ECON 4850:Decision Analysis and Simulation

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000-4000 level) course offerings outside the Major, but inside the Coles College of Business. FIN courses cannot be used here. (A maximum of nine hours of credit in Finance Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) See a Coles Staff Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

***Guidance for Selecting Major Field Electives:**

If you are interested in a particular area of Finance, following are some suggested courses related to two areas of specialization: Capital Markets and Corporate Finance:

I. Capital Markets

- FIN 4320:Fixed Income Securities
- FIN 4460:Financial Statement Analysis
- FIN 4520:Financial Derivatives and Financial Engineering
- FIN 4560:Behavioral Finance
- INS 4500:Principles of Risk Management and Insurance

II. Corporate Finance

- FIN 4260:Short Term Financial Management
- FIN 4460:Financial Statement Analysis
- FIN 4560:Behavioral Finance
- FIN 4620:Financial Management of Financial Institutions
- FIN 4660:Advanced Corporate Finance
- RE 4500:Real Estate Finance

Hospitality Management, B.B.A.

Contact Information

Website: <https://coles.kennesaw.edu/management-entrepreneurship/>

Program Description

The Bachelor of Business Administration in Hospitality Management program is designed to prepare students for employment in the growing field of hospitality defined broadly as hotels, restaurants, convention and exposition centers, theme and amusement parks etc. Based on a business core foundation, the hospitality program prepares students with a strong business curriculum, experience in the hospitality industry, and content courses that cover key areas of hospitality business. The curriculum lies at the intersection of service management and analytics, through courses in guest service management, revenue management, and strategic analytics in hospitality. In the age of Big Data, the prospective program aims to equip students with skills to analyze and interpret how external and internal factors influence decision making in hospitality enterprises, and thereby impact organizational performance.

Admissions Requirements

Admission to the Hospitality Management, BBA program is separate from admission to Kennesaw State University. Students must meet the program's requirements outlined below to pursue this degree program.

- All students must meet the admission requirements for freshmen and/or transfer students as determined by KSU prior to applying to the Coles College Professional Program.

- Business majors must apply for and be accepted to the Coles College Undergraduate Professional Program in order to graduate with a B.B.A. degree - a Bachelor of Business Administration.
- The Coles B.B.A. requires 120 semester hours. Students apply for this program during or after their sophomore year. Admission to the program gives students access to upper division-business courses needed to complete the B.B.A. degree, as well as professional and career development opportunities.
- Once students declare their major as business, they will need to meet with a Coles College Academic Advisor, successfully complete BUSA 2150 and satisfactorily complete the Coles Sophomore GPA requirement.
- Students must complete the seven courses in the Lower Division Business Core (ACCT 2101, ACCT 2102, ECON 2105, ECON 2106, ECON 2300, IS 2200, and BLAW 2200) with a GPA of 3.0 or above, including a grade of "C" or better in each course.
- Once a student is accepted into the Coles College of Business, then he/she can proceed with a hospitality management major.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Area A- E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (48 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (15 Credit Hours)

- HMGT 3300:Introduction to Hospitality
- HMGT 3500:Guest Service Management
- HMGT 3397:Work Experience In Hospitality Management
- HMGT 4100:Hospitality Marketing and Revenue Management
- HMGT 4300:Hotel Management and Operations
- HMGT 4500:Strategic Analytics for Hospitality Managers

Major Field Electives (9 Credit Hours)

- BLAW 4960:Current Issues in Business Ethics and Law
- BUSA 3500:Culture & International Business
- HMGT 4490:Special Topics in Hospitality Management
- MGT 3190:Business, Ethics, and Society
- MGT 3600:Introduction to International Business
- MGT 4123:Family Business Management
- MGT 4124:Franchise Management
- ENTR 4125:International Entrepreneurship
- MGT 4130:Commercial Real Estate Ventures
- MGT 4161:Organizational Communications
- MGT 4174:International Human Resource Management
- MGT 4190:International Management
- MGT 4476:Contemporary Global Business Practices
- MGT 4880:Service Operations Management
- MKTG 4620:Services Marketing
- MKTG 4880:Hospitality and Tourism Marketing

Business Electives (9 Credit Hours)

Non-Business Electives (3 Credit Hours)

Program Total (120 Credit Hours)

Information Security and Assurance, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-7763

Program Description

The purpose of the Bachelor of Business Administration with a major in Information Security and Assurance (BBA-ISA) program is to create technologically proficient, business-savvy information security professionals capable of applying policy, education & training, and technology solutions to protect information assets from all aspects of threats, and to manage the risks associated with modern information usage. Information security is the protection of the confidentiality, integrity, and availability of information while in transmission, storage or processing, through the application of policy, technology, and education and awareness. Information assurance concerns information operations that protect and defend information and information systems by ensuring availability, integrity, authentication, confidentiality, and nonrepudiation. This program spans both areas in its approach to the protection of information in the organization.

The Department of Homeland Security and the National Security Agency have jointly designated Kennesaw State University as a National Center of Academic Excellence in Cyber Defense Education with specialized focus areas in Security Policy Development & Compliance and Systems Security Administration.

Admissions Requirements

Admission to Coles B.B.A. programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Accounting and graduate with an Information Security & Assurance B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Specific General Education Core Curriculum Requirements for This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (54 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance

- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (24 Credit Hours)

- ISA 3010:Security Script Programming
- ISA 3100:Principles of Information Security
- ISA 3200:Network Security
- ISA 3210:Client Systems Security
- ISA 3300:Management of Information Security in a Global Environment
- ISA 4200:Perimeter Defense
- ISA 4220:Server Systems Security
- ISA 4820:Information Security and Assurance Programs and Strategies

Major Field Electives (6 Credit Hours)

Select 6 credit hours from the following:

- ISA 3710:International Issues in Information Security and Assurance
 - ISA 4330:Incident Response and Contingency Planning
 - ISA 4350:Management of Digital Forensics and eDiscovery
 - ISA 4400:Directed Study in Information Security and Assurance
 - ISA 4490:Special Topics in Information Security and Assurance
 - ISA 4700:Emerging Issues in Information Security and Assurance
 - ISA 4805:Penetration Testing
 - IS 3040:IT Infrastructure
 - IS 3220:Global IS Project Management
 - IS 3920:Application Development II
- Any other courses from IS, ISA, and CRJU as approved by the Department.
- FTA 4100:Introduction to Information Security for FinTech

Business Electives (6 Credit Hours)

Six hours of credit from upper-division (3000-4000 level) course offerings outside the Major, but inside the Coles College of Business. ISA courses cannot be used here. (A maximum of six hours of credit in Information Security and Assurance Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) ISA Students are encouraged to take IS courses in this area. See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

Embedded Certificates

Security Policy Development and Compliance Specialization Certificate

Students who have completed the program requirements for the BBA with a major in Information Security and Assurance will also earn the Security Policy Development and Compliance Specialization Certificate as designated by the National Security Agency and Department of Homeland Security: For those students having successfully completed the study of a prescribed body of knowledge in the Security Policy Development and Compliance Cyber Defense Education specialization, in accordance with the academic regulations of Kennesaw State University, and the National Security Agency and Department of Homeland Security designation criteria for required knowledge units for National Centers of Academic Excellence in Cyber Defense Education.

Systems Security Administration Specialization Certificate

Students who have completed the program requirements for the BBA with a major in Information Security and Assurance, and successfully completed the elective course ISA 4330 will also earn the Systems Security Administration Specialization Certificate as designated by the National Security Agency and Department of Homeland Security: For those students having successfully completed the study of a prescribed body of knowledge in the Systems Security Administration Cyber Defense Education specialization, in accordance with the academic regulations of Kennesaw State University, and the National Security Agency and Department of Homeland Security designation criteria for required knowledge units for National Centers of Academic Excellence in Cyber Defense Education.

Information Systems, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-7763

Program Description

The BBA degree with a major in information systems (IS) produces students who know how to apply technology as a driver of business strategy. This requires students to have strong technology skills, a clear understanding of business strategy, processes, and environment, and ultimately an ability to envision and apply technology solutions in a business environment. Students earning a BBA with a major in information systems understand web and application development in the context of the business environment. Graduates have capabilities in systems analysis and design, database management, and IT project management. Students also have the opportunity to consider information systems strategy in the global environment and bring everything together into an IS capstone course. The program of study includes general business courses, and business topics are integrated into many IS courses. The BBA in IS provides students with flexible elective options. Elective courses focus on cutting-edge IT topics such as data mining and business intelligence.

Students completing the BBA with a major in IS may choose to pursue graduate studies in IS, business, and related fields, or they may choose to begin careers in industry, government, or other agencies. Graduates of the IS program are prepared for a variety of careers in IS, especially in the design, implementation, and management of IT projects. Example job titles include application developer, application support, business analyst, business intelligence manager, client services analyst, database administrator, database analyst, information resource manager, IT consultant, programmer/analyst, project manager, quality assurance analyst, systems analyst, user support analyst, web developer, web page designer, and webmaster.

Admissions Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses in Accounting and graduate with an Accounting B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://cia.kennesaw.edu/double-owl-pathways/index.php>.

Program of Study

General Education (42 Credit Hours)

See listing of requirements.

Specific General Education Requirements for This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (51 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (21 Credit Hours)

- IS 3020:Application Development I
- IS 3040:IT Infrastructure
- IS 3060:Systems Analysis and Design
- IS 3220:Global IS Project Management
- IS 3260:Web Development I
- IS 3280:Data Management
- IS 4880:IS Capstone Course

Major Field Electives (6 Credit Hours)

Select 6 credit hours from the following:

- IS 3080:Information Resource Management

- IS 3560:Business Process Management
- IS 3720:Advanced IT Project Management
- IS 3740:Human Computer Interaction
- IS 3760:Web Development II
- IS 3920:Application Development II
- IS 4400:Directed Study
- IS 4490:Special Topics
- IS 4540:Data Mining
- IS 4560:e-Business Systems
- IS 4860:Global Information Systems Strategy
- ISA 3330:Information Security Approach to Crisis Management
- ISA 3710:International Issues in Information Security and Assurance
- FTA 4100:Introduction to Information Security for FinTech

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000-4000 level) course offerings outside the major, but inside the Coles College of Business. IS courses cannot be used here. (A maximum of nine hours of credit in Information Systems Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) IS Students are encouraged to take ISA courses in this area. See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

International Business, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

The program of study in International Business is designed for students who are actively seeking to focus their education on the international dimensions of business. The curriculum for this major provides students with a solid foundation of traditional liberal arts components of a baccalaureate education, the traditional components of a business school education, plus the international dimensions of business, foreign language, and an international study experience. Students also complete a Concentration Area in one of the business functional disciplines.

Admissions Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses and graduate with an International Business B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

International Business Majors must also earn a grade of "C" or better in the courses that satisfy their foreign language and international study experience requirements.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career

- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (57 Credit Hours)

Business Core (27 Credit Hours)

- FL 1002:Introduction to Foreign Language and Culture II (or CHIN 1002, FREN 1002, GRMN 1002, ITAL 1002, JPN 1002, KOR 1002, PORT 1002, SPAN 1002)
- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Foreign Language Requirement (9 Credit Hours)

9 hours of approved foreign language skills courses at the 2000- and 3000-level or above. Students must choose from Chinese, French, German, Italian, Japanese, Korean, Portuguese, or Spanish and complete 2001, 2002, and 3 credit hours at the 3000- level or above that focus on foreign language skill development. These 3000- level courses must be approved by the Coles College Advising Director and should not be taken prior to receiving the Director's pre-approval.

Major Field Requirements (15 Credit Hours)

- MGT 3600:Introduction to International Business
- ECON 4410:International Trade and Finance
- FIN 4420:International Financial Management
- MGT 4190:International Management
- MKTG 4820:International Marketing

Major Field Electives (6 Credit Hours)

Select 6 credit hours from the following:

- BUSA 3500:Culture & International Business
- ECON 4310:Economic Development in Global Perspective
- IS 3220:Global IS Project Management
- IS 4860:Global Information Systems Strategy
- ENTR 4125:International Entrepreneurship
- MGT 4174:International Human Resource Management
- MGT 4800:International Supply Chain Management
- MGT/MKTG 4476:Contemporary Global Business Practices

- MKTG 4500:Internet Marketing and Global Business
 - ASIA 3355:Cultures and Capitalisms in Asia
 - ASIA 3950:Technology Strategy in Asia
 - LDRS 3200:Leadership in a Global Society
 - CHIN 4404:Commercial Chinese
or
 - FREN 4404:Commercial French
or
 - GRMN 4404:Commercial German
or
 - ITAL 4404:Commercial Italian
or
 - SPAN 4404:Commercial Spanish
 - GEOG 3312:Geography of Europe
or
 - GEOG 3330:Economic Geography
or
 - GEOG 3350:Geography of Sub-Saharan Africa
or
 - GEOG 3360:Geography of Asia
or
 - GEOG 3370:Geography of Latin America and the Caribbean
- Other business and non-business courses that have appropriate international and/or business content might be approved by the Executive Director of the B.B.A. Program. These courses should not be taken prior to receiving the Executive Director's pre-approval.

Education Abroad Requirement

The International Business B.B.A. degree requires that six credit hours used towards meeting the above requirements be earned in an approved Education Abroad program(s), and that at least 3 of these credit hours are for a business or a foreign language course. These courses used to satisfy this requirement must be approved by the Executive Director of the B.B.A. Program and should not be taken prior to receiving the Executive Director's pre-approval.

Business Electives (3 Credit Hours)

Three hours of credit from upper-division (3000/4000) course offerings inside the Coles College of Business. (A maximum of 0 hours of credit in Internships may be used in this area. Internships cannot be used in any other area.) See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

Management, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6552

Program Description

The program of study in Management is designed to prepare students for leadership roles in the field of management. Management is the process of planning, organizing, staffing, directing and controlling activities in an organization that will result in the achievement of a common goal. Managers make decisions and direct resources so that organizational goals and objectives are achieved.

Admissions Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements, outlined below. In order to be able to take upper-division courses and graduate with an Management B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (48 Credit Hours)

Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (15 Credit Hours)

- MGT 4001:Organizational Behavior
- MGT 4002:Human Resource Management
- MGT 4003:Project Management
- MGT 4004:Managing Your Company

And select 3 credit hours from the following international courses:

Managing Globally: Management Majors are required to show competency in managing within the global context.

- MGT 4174:International Human Resource Management
- MGT 4190:International Management
- MGT 4476:Contemporary Global Business Practices
- MGT 4800:International Supply Chain Management

Major Field Electives (9 Credit Hours)*

Select 9 credit hours from the following, other than the course used above:

- BLAW 4960:Current Issues in Business Ethics and Law
- BUSA 3500:Culture & International Business
- HMGMT 3300:Introduction to Hospitality
- MGT 3600:Introduction to International Business
- MGT 3190:Business, Ethics, and Society
- MKTG 4666:Marketing for Entrepreneurs
- Any 4000 level ENTR course
- Any 4000 level MGT course

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000-4000 level) course offerings outside the Major, but inside the Coles College of Business. MGT courses cannot be used here. (A maximum of nine hours of credit in Management, Entrepreneurship and Hospitality Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.)

Non-Business Electives (3 Credit Hours)

Three hours of credit from any lower-division (1000/2000) or upper-division (3000/4000) non-business courses offered at Kennesaw State.

Program Total (120 Credit Hours)

Note: Students following this Catalog for the B.B.A. with a Management Major cannot use MGT 4120, MGT 4160, or MGT 4170 in the Major Field Electives section or anywhere else.

***Guidance for Selecting Major Field Electives:**

If you are interested in a particular area of Management, following are some suggested courses related to three areas of specialization: Human Resource Management, Venture Management, and Operations and Supply Chain Management.

I. Human Resource Management

- MGT 4171:Employee and Labor Relations
- MGT 4172:Compensation and Reward Systems
- MGT 4173:Human Resource Selection
- MGT 4174:International Human Resource Management

II. Venture Management

- ENTR 4122:Venture Analysis
- MGT 4123:Family Business Management
- MGT 4124:Franchise Management
- MGT 4130:Commercial Real Estate Ventures

III. Operations and Supply Chain Management

- MGT 4800:International Supply Chain Management
- MGT 4850:Managing Process Improvement
- MGT 4860:Quality Management
- MGT 4880:Service Operations Management

Marketing, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Marketing impacts everyone, every day. The activity not only helps organizations promote goods and services to potential customers but also helps nonprofits deliver life-changing messages.

The marketing curriculum merges marketing theory with real-world practice to prepare students for working with either for-profit or nonprofit organizations. Students may choose a general program of study or one of the specialized career paths including advertising and digital media marketing, retail and consumer services, and sports and entertainment marketing. A marketing major prepares students to pursue a rewarding career in advertising, retailing, marketing research, digital marketing, sports marketing, social media, among other areas.

Admissions Requirements

Admission to the Marketing, BBA program is separate from admission to Kennesaw State University. Students must meet the program requirements outlined below to pursue this degree program. In order to be able to take upper-division courses in Marketing and graduate with a Marketing B.B.A., students must successfully:

- Complete BUSA 2150
- Meet Coles College Sophomore GPA Requirement,
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or better in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Specific General Education Core Curriculum Requirements for this Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (51 Credit Hours)

Upper Division Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management
- ECON 3300:Applied Statistical and Optimization Models
- MGT 4199:Strategic Management

Major Field Requirements (15 Credit Hours)

- MKTG 3150:Consumer Behavior
- MKTG 3410:Professional Selling
- MKTG 4100:Marketing Research
- MKTG 4820:International Marketing
- MKTG 4990:Marketing Strategy

Major Field Electives (12 Credit Hours)*

Select 12 credit hours from the following:

- MKTG 3800:Entertainment Marketing
- MKTG 4300:Basic Retailing
- MKTG 4350:Retail Management
- MKTG 4400:Directed Study
- MKTG 4430:Market Analysis
- MKTG 4450:Sales Management
- MKTG 4476:Contemporary Global Business Practices
- MKTG 4490:Special Topics in Marketing
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4520:Social Media Marketing
- MKTG 4620:Services Marketing
- MKTG 4630:Direct Response Marketing
- MKTG 4650:Advertising
- MKTG 4666:Marketing for Entrepreneurs
- MKTG 4670:Promotional Strategy
- MKTG 4750:Advanced Selling
- MKTG 4850:Business to Business Marketing
- MKTG 4870:Sports Marketing
- MKTG 4880:Hospitality and Tourism Marketing
- MKTG 4570:Advanced Social Media Marketing

Business Electives (9 Credit Hours)

6 hours of credit from upper-division (3000/4000) course offerings outside the Major, but inside the Coles College of Business. MKTG courses cannot be used here. (A maximum of 6 hours of credit in Marketing Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot be used in any other area.) See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Program Total (120 Credit Hours)

***Guidance for Selecting Major Field Electives:**

The Department offers a wide variety of marketing courses. Outlined below are suggested courses related to four potential career paths: Channels Marketing, Professional Selling, Social Media and Engagement Marketing, and Sports and Hospitality Marketing. If you would rather create your own path, please consult with a Career Coach or one of the Marketing and Professional Sales Faculty on the Coles Advising Team.

I. Channels Marketing

Channels marketing is a career path designed to engage channel members responsible for getting products into consumers' hands. Jobs in this field include both online and traditional retailing, business-to-business, and service environments.

- MKTG 4300:Basic Retailing
- MKTG 4350:Retail Management
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4620:Services Marketing
- MKTG 4750:Advanced Selling

II. Professional Selling

Professional Selling is concerned with designing and delivering effective sales presentations, analyzing and managing individual accounts, and managing a sales force.

- MKTG 4430:Market Analysis
- MKTG 4450:Sales Management
- MKTG 4750:Advanced Selling
- MKTG 4850:Business to Business Marketing

III. Social Media and Engagement Marketing

Social media and engagement marketing focuses on activities that include consumers as participants. The primary emphasis is on promotions and includes two-way communication as well as digital, mobile, multi-, and traditional media.

- MKTG 4500:Internet Marketing and Global Business

- MKTG 4520:Social Media Marketing
- MKTG 4630:Direct Response Marketing
- MKTG 4650:Advertising
- MKTG 4670:Promotional Strategy

IV. Sports and Hospitality Marketing

Sports and hospitality marketing concentrates on opportunities in the growing fields of sports, entertainment, restaurants, hotels, travel, and tourism.

- MKTG 3800:Entertainment Marketing
- MKTG 4620:Services Marketing
- MKTG 4870:Sports Marketing
- MKTG 4880:Hospitality and Tourism Marketing

Professional Sales, B.B.A.

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Many job opportunities exist in professional sales for graduates who enjoy the independence and economic rewards that a sales career provides. A major in professional selling focuses on business-to-business selling, helping students learn how to design and deliver effective sales presentations, analyze and manage individual accounts and markets, develop sales plans, and manage the sales force.

Admission Requirements

Admission to Coles B.B.A programs is separate from admission to Kennesaw State University. Students must meet the program requirements outlined below. In order to be able to take upper-division courses and graduate with an Professional Sales B.B.A., students must successfully:

- Complete BUSA 2150
- Meet the Coles College Sophomore GPA Requirement
- Be admitted to the Coles Undergraduate Professional Program. Admission to the Coles Undergraduate Professional Program is separate from admission to Kennesaw State University. In addition, all business majors must earn a grade of "C" or higher in all business courses counted toward their degree.

View the special admission, progression, and graduation requirements of the Coles College of Business.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

Area A2: MATH 1111 or higher

Lower Division Business Core (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ACCT 2102:Principles of Accounting II
- ECON 2105:Principles of Macroeconomics
- ECON 2106:Principles of Microeconomics
- ECON 2300:Business Statistics
- IS 2200:Information Systems and Communication

Leadership and Career Program (0 Credit Hours)

- BUSA 2150:Discovering My Major and Career
- BUSA 3150:Developing My Career Essentials
- BUSA 4150:Driving My Success

Major Requirements (48 Credit Hours)

Upper Division Business Core (24 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- FIN 3100:Principles of Finance
- IS 3100:Information Systems Management
- MGT 3200:Operations Management

- MGT 4199:Strategic Management
- ECON 3300:Applied Statistical and Optimization Models

Major Field Requirements (18 Credit Hours)

- MKTG 3410:Professional Selling
- MKTG 4450:Sales Management
- MKTG 4460:Sales Technology and Analytics
- MKTG 4750:Advanced Selling

Select two of the following:

- MKTG 4430:Market Analysis
- MKTG 4820:International Marketing
- MKTG 4850:Business to Business Marketing

Major Field Electives (6 Credit Hours)

Select 6 credit hours from the following:

- MKTG 3150:Consumer Behavior
- MKTG 3800:Entertainment Marketing
- MKTG 4100:Marketing Research
- MKTG 4300:Basic Retailing
- MKTG 4350:Retail Management
- MKTG 4400:Directed Study
- MKTG 4476:Contemporary Global Business Practices
- MKTG 4490:Special Topics in Marketing
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4520:Social Media Marketing
- MKTG 4620:Services Marketing
- MKTG 4630:Direct Response Marketing
- MKTG 4650:Advertising
- MKTG 4666:Marketing for Entrepreneurs
- MKTG 4670:Promotional Strategy
- MKTG 4870:Sports Marketing
- MKTG 4880:Hospitality and Tourism Marketing
- MKTG 4990:Marketing Strategy
- MKTG 4570:Advanced Social Media Marketing

Business Electives (9 Credit Hours)

Nine hours of credit from upper-division (3000/4000) course offerings outside the Major, but inside the Coles College of Business. MKTG courses cannot be used here. (A maximum of six hours of credit in Professional Sales Co-Ops and Internships may be used in this area. Co-Ops and Internships cannot

be used in any other area). See a Coles Professional Advisor before taking MGT courses to count here - some MGT courses cannot be used here.

Non-Business Electives (3 Credit Hours)

Three hours of credit from any lower-division (1000/2000) or upper-division (3000/4000) non-business courses offered at Kennesaw State.

Program Total (120 Credit Hours)

Certificate

Business Fundamentals Certificate

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6055

Program Description

The Business Fundamentals Certificate includes foundation courses in several business functional areas. It is designed to help non-business majors learn business concepts, principles, and skills that can complement their major field competency if they seek a position in, or plan to start, a business.

The Business Fundamentals Certificate is not available to business majors or to Integrative Studies Majors who have Business or Music & Entertainment Business as a focus area. You must meet with a Coles Professional Advisor in the Business Undergraduate Advising Center (BB 431) to declare your intention to complete the Certificate. This meeting should occur as soon as possible, but no later than the end of the Drop/Add period of your graduation term.

At least 12 of the 18 hours counted toward the Certificate must be taken from Coles College of Business. A minimum grade of "C" is required in each course, and a GPA of at least 2.66 is required on the set of courses counted toward the Certificate.

Program of Study

Required Courses (15 Credit Hours)

- ACCT 2101:Principles of Accounting I

- ECON 2105:Principles of Macroeconomics
or
- ECON 2106:Principles of Microeconomics

- IS 2200:Information Systems and Communication

- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing

Select one of the following (3 Credit Hours)

- ACCT 2102:Principles of Accounting II
- BLAW 2200:Legal and Ethical Environment of Business

- ECON 2105:Principles of Macroeconomics
or
- ECON 2106:Principles of Microeconomics

- FIN 3100:Principles of Finance

Program Total (18 Credit Hours)

Information Security and Assurance Certificate

Contact Information

Website: <https://coles.kennesaw.edu/information-systems/index.php>

Phone: (470) 578-7763

Program Description

The Certificate in Information Security and Assurance is designed for students with an interest in Information Security and its application in the expanding field of technology. The certificate program emphasizes the skills and knowledge necessary to protect and inspect systems, and to detect and react to threats to the security of information in those systems. The certificate requires 15 semester hours (5 courses), and all coursework must be completed with a "C" or better.

This certificate can not be awarded to students who earn the BBA with a major in Information Security and Assurance or the BS with a major in Cybersecurity.

Required Courses (15 Credit Hours)

- ISA 3100:Principles of Information Security
- ISA 3200:Network Security
- ISA 3210:Client Systems Security
- ISA 3300:Management of Information Security in a Global Environment
- ISA 4330:Incident Response and Contingency Planning

Program Total (15 Credit Hours)

Information Systems Certificate

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-7763

Program Description

Information systems (IS) is rapidly becoming as important to career entry and advancement as oral and written communication. In fact, recruiting experts believe that even a small amount of technology savvy and knowledge opens doors for anyone entering today's work place. This certificate is ideal for students who enjoy working with computers but do not wish to seek a degree in technology-related fields. It is also ideal for students who have already completed a bachelor's degree and seek the latest IS expertise. Students with degrees in fields such as accounting, biology, foreign language, English, criminal justice, and sociology will find that the addition of these important IS skills will make them far more marketable.

The IS Certificate offers KSU students knowledge and experience with the latest tools and technologies. Topics include web technologies, database technologies, and electronic commerce. Students are required to receive at least a "C" in courses in order to receive the certificate.

The IS Certificate requires one foundation course in IS, three 3-semester-hour approved IS courses, and one 3-semester-hour applied learning experience, for a total of 15 credit hours.

Required Courses (6 Credit Hours)

- IS 2200:Information Systems and Communication

One of the following experiential education courses:

- IS 3396:Cooperative Study
- IS 3398:Internship
- IS 4400:Directed Study

Experiential education courses from the department of the student's major program of study may be substituted with permission of the IS certificate Coordinator.

Electives (9 Credit Hours)

Choose 3 of the following courses:

- IS 3020:Application Development I
- IS 3080:Information Resource Management
- IS 3100:Information Systems Management
- IS 3220:Global IS Project Management
- IS 3260:Web Development I
- IS 3280:Data Management

- IS 3740:Human Computer Interaction
- IS 3760:Web Development II
- IS 4560:e-Business Systems
- ISA 3100:Principles of Information Security

Certificate Total (15 Credit Hours)

Interdisciplinary Music and Entertainment Business Certificate

Contact Information

Website: <https://mebus.kennesaw.edu/>

Program Description

The Joel A. Katz Music and Entertainment Business Program is a joint venture between the Coles College of Business and the College of the Arts. The purpose of the Music and Entertainment Business program is to develop leaders for the entertainment industry. The MEBU program creates an intellectual synergy beyond what students can achieve in business or entertainment programs separately. Core content of the program includes: Business Fundamentals; Entertainment Industry Knowledge; Music Fundamentals; Production and Technology; Music, Film, and Digital Entertainment and Hands-on Experiences. The MEBU program provides students the opportunity to be successful in the music and entertainment industry.

Program Requirements

For Bachelor of Arts (BA) Candidates:

Required (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- MEBU 3100:Fundamentals of the Music and Entertainment Business
- MEBU 4100:Emerging Trends of the Music and Entertainment Business
- MEBU 4200:Current Topics in the Music and Entertainment Business
- MGT 3100:Management and Behavioral Sciences
 - or
- MKTG 3100:Principles of Marketing
- MEBU 2270:Entertainment Media Production
 - or
- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

MENT/MEBU courses (3 Credit Hours)

Select one from the following list:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MENT 4444:Film and Video Structure and Process

Elective (3 Credit Hours):

Select one (not used above) from the following:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MEBU 4470:Advanced Audio Production and Technology
- MEBU 4480:Advanced Creative Adaptability (Video Production)
- MEBU 4490:Special Topics in the Music and Entertainment Business

For Bachelor of Music (BM) Candidates:

Required (18 Credit Hours):

- ACCT 2101:Principles of Accounting I
- MEBU 3100:Fundamentals of the Music and Entertainment Business
- MEBU 4100:Emerging Trends of the Music and Entertainment Business
- MEBU 4200:Current Topics in the Music and Entertainment Business
- MGT 3100:Management and Behavioral Sciences
- or
- MKTG 3100:Principles of Marketing

- MEBU 2270:Entertainment Media Production
- or
- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

MENT/MEBU Courses (3 Credit Hours)

Select one from the following list:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MENT 4444:Film and Video Structure and Process

Elective (3 Credit hours):

Select one (not used above) of from the following:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MEBU 4470:Advanced Audio Production and Technology
- MEBU 4480:Advanced Creative Adaptability (Video Production)
- MEBU 4490:Special Topics in the Music and Entertainment Business

For Bachelor of Business Administration (BBA) Candidates:

Required (12 Credit Hours):

- MEBU 3100:Fundamentals of the Music and Entertainment Business
- MEBU 4100:Emerging Trends of the Music and Entertainment Business
- MEBU 4200:Current Topics in the Music and Entertainment Business

- MEBU 2270:Entertainment Media Production
or
- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

MENT/MEBU courses (3 Credit Hours):

Select one from the following list:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MENT 4444:Film and Video Structure and Process

Elective (9 Credit Hours)

Select three (not used above) from the following:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MEBU 4470:Advanced Audio Production and Technology
- MEBU 4480:Advanced Creative Adaptability (Video Production)
- MEBU 4490:Special Topics in the Music and Entertainment Business
- MKTG 3800:Entertainment Marketing
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4650:Advertising
- MGT 3190:Business, Ethics, and Society
- MGT 3600:Introduction to International Business

For Bachelor of Science (BS) Candidates:

Required (18 Credit Hours):

- ACCT 2101:Principles of Accounting I
- MEBU 3100:Fundamentals of the Music and Entertainment Business
- MEBU 4100:Emerging Trends of the Music and Entertainment Business
- MEBU 4200:Current Topics in the Music and Entertainment Business
- MGT 3100:Management and Behavioral Sciences
- or
- MKTG 3100:Principles of Marketing

- MEBU 2270:Entertainment Media Production
- or
- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)

MENT/MEBU courses (3 Credit Hours):

Select one from the following list:

- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MENT 4444:Film and Video Structure and Process

Elective (3 Credit hours):

Select one (not used above) from the following:

- COM 2230:Introduction to Mass Communication
- MEBU 3280:Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370:Fundamentals of Audio Production and Technology
- MEBU 3380:Principles of Creative Adaptability (Video Production)
- MEBU 3398:Internship in the Music and Entertainment Business
- MEBU 4470:Advanced Audio Production and Technology
- MEBU 4480:Advanced Creative Adaptability (Video Production)
- MEBU 4490:Special Topics in the Music and Entertainment Business

Program Total (24 Credit Hours)

Formal Minor

Accounting Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6084

Program Description

The School of Accountancy aspires to be a nationally recognized leader in influencing the accounting profession by educating our students, performing relevant research, and engaging with the profession.

Accounting provides the tools to measure, interpret, and communicate economic information for decision-making. A basic understanding of financial and managerial accounting information is necessary for all business majors. The Accounting Minor expands their knowledge of accounting. A student's technical, communication, computer, critical-thinking, problem-solving, teamwork, and leadership skills are strengthened through accounting coursework.

Students completing an Accounting Minor must earn grades of "B" or higher in ACCT 2101 and ACCT 2102 (ACCT 2101 is a prerequisite for ACCT 2102), and grades of "C" or higher in all other accounting courses.

Required Courses (9 credit hours)

- ACCT 2102:Principles of Accounting II
- ACCT 3100:Intermediate Financial Accounting I
- ACCT 3200:Concepts in Federal Taxation

Select two of the following (6 credit hours)

- ACCT 4050:Intermediate Financial Accounting II
- ACCT 4100:Advanced Financial Accounting
- ACCT 4150:Auditing and Assurance *
- ACCT 4200:Advanced Managerial Accounting
- ACCT 4250:Advanced Taxation
- ACCT 4300:International Accounting
- ACCT 4600:Governmental and Not-for Profit Accounting

Program Total (15 credit hours)

***Note:** *An extra prerequisite course (which does not count toward the Minor) is required to take this course.

Advertising and Digital Media Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Advertising and Digital Media focuses on activities that include consumers as participants. The primary emphasis is on promotions and includes two-way communication as well as digital, mobile, multi-, and traditional media.

Required Courses (9 Credit Hours)

- MKTG 3100:Principles of Marketing
- MKTG 4520:Social Media Marketing
- MKTG 4650:Advertising

Electives (6 Credit Hours)

Select one of the following:

- MKTG 4570:Advanced Social Media Marketing
- MKTG 4670:Promotional Strategy

Select one of the following not already taken:

- MKTG 4570:Advanced Social Media Marketing
- MKTG 4666:Marketing for Entrepreneurs
- MKTG 4670:Promotional Strategy
- MKTG 4880:Hospitality and Tourism Marketing

Program Total (15 Credit Hours)

Business Law Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6084

Program Description

The Business Law (BLAW) Minor prepares students for living and working with the law. It helps students understand legal issues related to business, and addresses ethical issues arising in business internal and external relationships. Completing the BLAW Minor will benefit students interested in law school.

Students completing a Business Law Minor must earn a grade of "C" or higher in all BLAW courses.

Required Course (3 Credit Hours)

- BLAW 2200:Legal and Ethical Environment of Business

Select four of the following (12 Credit Hours)

- BLAW 3400:Negotiation
- BLAW 4100:Advanced Business Law
- BLAW 4200:Employment Law
- BLAW 4300:Real Estate Law
- BLAW 4500:Franchise Law
- BLAW 4600:International Law: Business Applications
- BLAW 4960:Current Issues in Business Ethics and Law

Program Total (15 Credit Hours)

Coles Scholars Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6425

Program Description

The Coles College Scholars Program provides exceptional business students with unique and challenging opportunities through a coordinated multi-year program focused on leadership development, integrated and international studies, community engagement and mentorship. Participants must apply, and are screened and selected annually through a rigorous application and interview process.

Required Courses

- CSCH 4010:Applied Leadership in Business
- CSCH 4020:Critical Thinking and Decision Making
- CSCH 4030:International Immersion
- CSCH 4040:Consulting & Change Management
- CSCH 4050:Business Intelligence

Program Total (15 Credit Hours)

Economics Minor

Contact Information

Website: <https://coles.kennesaw.edu/economics/index.php>

Phone: (470) 578-6091

Program Description

A minor in Economics is an excellent complement to other business degrees, as well as degrees in mathematics and statistics. Supplementing these majors with a minor in Economics avails students to jobs in management, marketing, business research, economic planning, and human resources with employers in industry, trade, banking, and government. Students will also be well prepared for graduate study in economics, law, and business.

Required Course (3 Credit Hours)

- ECON 2105:Principles of Macroeconomics

Select four of the following (12 Credit Hours)

- ECON 4210:Money and Financial Markets
- ECON 4310:Economic Development in Global Perspective
- ECON 4510:Microeconomics
- ECON 4550:The Economics of Strategy
- ECON 4610:Macroeconomics
- ECON 4710:Econometrics
- ECON 4760:Business Forecasting
- ECON 4810:Quantitative Decision Models
- ECON 4850:Decision Analysis and Simulation

Program Total (15 Credit Hours)

Entrepreneurship Minor

Contact Information

Website: <http://coles.kennesaw.edu>

Phone: (470) 578-6552

Program Description

The Entrepreneurship Minor is open to all undergraduate students. Students gain an understanding of an entrepreneurial orientation in a variety of settings including new venture creation, social stewardship, family business, government operations, and corporate endeavors.

Requirements for Business Majors

Required Courses

- ENTR 4001:Entrepreneurial Mind
 - ENTR 4002:Venture Creation
 - ENTR 4003:Venture Funding
 - ENTR 4004:Venture Commercialization
- Select one of the following (3 credit hours)
- ACCT 4700:Valuation of Closely Held Businesses
 - FIN 4260:Short Term Financial Management
 - HMGT 3300:Introduction to Hospitality
 - MEBU 3100:Fundamentals of the Music and Entertainment Business
 - MGT 4123:Family Business Management
 - MGT 4124:Franchise Management
 - ENTR 4125:International Entrepreneurship
 - MGT 4130:Commercial Real Estate Ventures
 - MGT 4173:Human Resource Selection
 - MGT 4185:Technology Management
 - MGT 4200:Family Business Consulting
 - MGT 4850:Managing Process Improvement
 - MKTG 3410:Professional Selling
 - MKTG 4520:Social Media Marketing
 - MKTG 4666:Marketing for Entrepreneurs
 - MKTG 4850:Business to Business Marketing
- Any ENTR 4000 level course

Requirements for Non-Business Majors

Required Courses

- MGT 3100:Management and Behavioral Sciences
- ENTR 4001:Entrepreneurial Mind
- ENTR 4002:Venture Creation
- ENTR 4003:Venture Funding
- ENTR 4004:Venture Commercialization

Program Total: (15 Credit Hours)

Finance Minor

Contact Information

Website: <https://coles.kennesaw.edu/economics/index.php>

Program Description

A minor in Finance is an excellent complement to other business degrees, particularly Accounting and Economics, as well as degrees in mathematics and statistics. Supplementing these majors with a minor in Finance avails students to jobs as bankers, financial managers, stockbrokers, financial analysts, portfolio managers, financial consultants, investment bankers, and financial planners.

Required Course (3 Credit Hours)

- FIN 3100:Principles of Finance

Select four of the following (12 Credit Hours)

- ECON 4210:Money and Financial Markets
- FIN 4220:Corporate Finance
- FIN 4260:Short Term Financial Management
- FIN 4320:Fixed Income Securities
- FIN 4360:Investments
- FIN 4420:International Financial Management
- FIN 4520:Financial Derivatives and Financial Engineering
- FIN 4620:Financial Management of Financial Institutions

Program Total (15 Credit Hours)

Financial Technologies (FinTech) Minor

Contact Information

Website: <https://fintech.kennesaw.edu/>

Program Description

FinTech is an area composed of the intersection of financial services and technology. Many disruptive technologies such as business analytics, mobile banking, and mobile trading have been applied in the financial services sector to create new and improved products and to increase efficiency. Students in this minor will learn how to leverage technology to create and improve financial services.

Program of Study

Required Courses (12 Credit Hours)

- FTA 3810:Payments Processing
- FTA 3850:Digital Payments Security
- FTA 3890:Experiential Learning
- FTA 4001:Foundations of FinTech

Elective Courses (3 Credit Hours)

Choose any one of the following courses:

- FTA 3860:Emerging Payments Technology
- FTA 4002:Financial Technologies
- FTA 4003:Commercial Banking and FinTech
- FTA 4005:Introduction to Financial Data Analytics
- FTA 4100:Introduction to Information Security for FinTech

Program Total (15 Credit Hours)

Information Security and Assurance Minor

Contact Information

Website: <https://coles.kennesaw.edu/information-systems/index.php>

Phone: (470) 578-7763

Program Description

The Minor in Information Security and Assurance is designed for students with an interest in Information Security and its application in the expanding field of technology. The Minor emphasizes the skills and knowledge necessary to protect and inspect systems, and to detect and react to threats to the security of information in those systems. The Minor requires 18 semester hours (6 courses), and all coursework must be completed with a grade of "C" or higher.

Required Courses (15 Credit Hours)

- IS 2200:Information Systems and Communication
- ISA 3100:Principles of Information Security
- ISA 3200:Network Security
- ISA 3210:Client Systems Security
- ISA 3300:Management of Information Security in a Global Environment

Select one of the following (3 Credit Hours)

- ISA 4200:Perimeter Defense
- ISA 4220:Server Systems Security

Program Total (18 Credit Hours)

Information Systems Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-7763

Program Description

The Minor in Information Systems (IS) is made up of six (6) courses and can be a useful complement for a large number of degrees at KSU. The Minor is designed to prepare students with expertise to identify organizational needs, allocate technology-based solutions, and solve problems.

Required Courses (9 Credit Hours)

- IS 2200:Information Systems and Communication
- IS 3100:Information Systems Management
- IS 3260:Web Development I

Select one from the following (3 Credit Hours)

- IS 3020:Application Development I
- IS 3060:Systems Analysis and Design
- IS 3280:Data Management

And select two from the following (6 Credit Hours)

- IS 3080:Information Resource Management
- IS 3220:Global IS Project Management
- IS 3560:Business Process Management
- IS 3720:Advanced IT Project Management
- IS 3740:Human Computer Interaction
- IS 3760:Web Development II
- IS 3920:Application Development II
- IS 4400:Directed Study
- IS 4490:Special Topics
- IS 4540:Data Mining
- IS 4560:e-Business Systems
- IS 4860:Global Information Systems Strategy

Program Total (18 Credit Hours)

Management Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 478-6552

Program Description

The Management Minor is open to all undergraduate students. Students gain an understanding of the organizational processes of planning, organizing, staffing, directing, and controlling activities that result in the achievement of a common goal.

Requirements for non-business majors:

- MGT 3100:Management and Behavioral Sciences
 - MGT 4001:Organizational Behavior
- Three (3) courses from BUSA 3500 and 4000-level MGT courses, except NOT MGT 4199

Program Total (15 Credit Hours)

Requirements for business majors:

MGT 4001:Organizational Behavior

Four (4) courses from BUSA 3500 and 4000-level MGT courses, except NOT MGT 4199

Program Total (15 Credit Hours)

Marketing Minor

Contact Information

Website: <https://coles.kennesaw.edu/marketing-sales/index.php>

Phone: (470) 578-6060

Program Description

In its role as the "central function of business" (P. Drucker), a Marketing Minor fits nicely with anyone pursuing a degree in another area of business. Marketing also serves as a complement to many non-business degrees for individuals expecting to own their own practices or businesses.

Note: Marketing Majors may NOT earn a Marketing Minor.

Required Courses (6 credit hours)

- MKTG 3100:Principles of Marketing
- MKTG 3150:Consumer Behavior

Elective Courses (9 Credit Hours)

Choose three other 3000-4000-level MKTG courses except MKTG 3396, MKTG 3398, and MKTG 4990

Program Total (15 Credit Hours)*

***Note:** Professional Sales Majors cannot use courses being counted toward a Marketing Minor as Business Electives, because your Business Electives cannot have a MKTG prefix.

Music and Entertainment Business Minor

Contact Information

Website: <https://mebus.kennesaw.edu/index.php>

Program Description

The Music and Entertainment Business minor offers three capstone courses in music & entertainment business as well as marketing, management, production, communication, and entrepreneurship courses that prepare students for successful careers in the entertainment industry. The MEBUS major is for students with a desire to work in the entertainment industry in areas such as film and television production, audio and video technology, venue and artist management, and concert and event production.

Required Courses (12 Credit Hours)

- MEBU 3100: Fundamentals of the Music and Entertainment Business
- MEBU 4100: Emerging Trends of the Music and Entertainment Business
- MEBU 4200: Current Topics in the Music and Entertainment Business
- MEBU 2270: Entertainment Media Production
- or
- MEBU 3398: Internship in the Music and Entertainment Business

Electives (6 Credit Hours)

Select six credit hours of elective courses from the following list:

- MEBU 3280: Fundamentals of Creative Adaptability (Video Production)
- MEBU 3370: Fundamentals of Audio Production and Technology
- MEBU 3380: Principles of Creative Adaptability (Video Production)
- MEBU 3398: Internship in the Music and Entertainment Business
- MEBU 4470: Advanced Audio Production and Technology
- MEBU 4480: Advanced Creative Adaptability (Video Production)
- MEBU 4490: Special Topics in the Music and Entertainment Business

*Note: If attending London Study Abroad, you must take BOTH MEBU 3398 and MEBU 4490

Program Total (18 Credit Hours)

Operations and Purchasing Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6552

Program Description

The Operations and Purchasing Minor is open to all undergraduate students. This Minor trains students with tangible, marketable skills for their careers, including process improvement, quality management, supply chain, purchasing, logistics, operations management, and service operations.

Required Courses (15 Credit Hours)

- MGT 3200:Operations Management
- MGT 4800:International Supply Chain Management
- MGT 4850:Managing Process Improvement
- MGT 4860:Quality Management
- MGT 4880:Service Operations Management

Program Total (15 Credit Hours)*

***Note:** Management Majors cannot use courses being counted toward an Operations & Purchasing Minor as Business Electives, because your Business Electives cannot have a MGT prefix.

Professional Sales Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Nearly everyone is involved in sales daily and nearly half of all college graduates begin their careers in the field of sales. The Minor in Professional Sales prepares students to excel in sales encounters.

Note: Professional Sales minor is limited to non-professional sales majors.

Required Courses (6 Credit Hours)

- MKTG 3100:Principles of Marketing
- MKTG 3410:Professional Selling

Electives (9 Credit Hours)

- MKTG 4430:Market Analysis
- MKTG 4450:Sales Management
- MKTG 4666:Marketing for Entrepreneurs
- MKTG 4750:Advanced Selling
- MKTG 4850:Business to Business Marketing

Program Total (15 Credit Hours)*

***Note:** Marketing Majors cannot use courses being counted toward a Professional Sales Minor as Business Electives, because your Business Electives cannot have a MKTG prefix.

Retail and Consumer Services Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Retail and Consumer Services involve getting products into consumers' hands. Jobs in this field include both online and traditional retailing, business-to-business, and service environments.

Program of Study

Required (9 Credit Hours)

- MKTG 3100:Principles of Marketing
- MKTG 4300:Basic Retailing
- MKTG 4350:Retail Management

Electives (6 Credit Hours)

Select two of the following:

- ATT 3100:Fashion Merchandising
- ATT 3800:Fashion Forecasting, Data Analysis & Consumer Trends
- MKTG 3800:Entertainment Marketing
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4520:Social Media Marketing
- MKTG 4620:Services Marketing
- MKTG 4650:Advertising
- MKTG 4880:Hospitality and Tourism Marketing

Program Total (15 Credit Hours)

Sports Marketing Minor

Contact Information

Website: <http://coles.kennesaw.edu/>

Phone: (470) 578-6060

Program Description

Whether one wants to work in the big leagues or promote a sports and entertainment venue, the Sports Marketing Minor provides understanding of the particular dynamics of this industry and its audiences. Sports marketing includes the administration, coordination, and evaluation of any type of event related to sport. The related field of hospitality marketing includes event planning, lodging, travel, and other leisure-oriented industries.

Required Courses (6 Credit Hours)

- MKTG 3100:Principles of Marketing
- MKTG 4870:Sports Marketing

Select three of the following (9 Credit Hours)

- MKTG 3150:Consumer Behavior
- MKTG 3410:Professional Selling
- MKTG 3800:Entertainment Marketing
- MKTG 4300:Basic Retailing
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4520:Social Media Marketing
- MKTG 4620:Services Marketing
- MKTG 4650:Advertising
- MKTG 4670:Promotional Strategy
- MKTG 4880:Hospitality and Tourism Marketing

Program Total (15 Credit Hours)

***Note:** Marketing Majors and Professional Sales Majors cannot use courses being counted toward a Sports Marketing Minor as Business Electives, because your Business Electives cannot have a MKTG prefix.

Norman J. Radow College of Humanities and Social Sciences

Baccalaureate

African and African Diaspora Studies, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/isd/>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Bachelor of Arts degree with a major in African and African Diaspora Studies offers students an interdisciplinary educational experience that fosters an understanding of the transnational experiences of African and African-descended peoples in the US, Caribbean, South America, Asia, Europe, and Oceania. Students will gain an appreciation for the diverse character of humanity, explore the complex historical and cultural relations between Africans on the continent and African-descended peoples in the Diaspora, and engage in a comparative study of issues affecting Africans in the continent and the Diasporas.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information visit the Admissions section of the catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Required Courses (12 Credit Hours)

- AADS 1101:Introduction to African Diaspora Studies
Or
- AADS 1102:Issues in African and African Diaspora Studies
- AADS 2200:Black Thought Matters

- AADS 2250:Careers in African and African Diaspora Studies
- ISD 2001:Introduction to Diversity and Social Justice

Lower-Division Electives (6 Credit Hours)

Select any two 1000 or 2000 level courses in the undergraduate catalog approved by the faculty advisor. Note: Per BOR Policy physical activity courses (HPE 1000-level courses) cannot be used in Area F.

Upper Division Field Major Requirements (33 Credit Hours)

Required Course (6 Credit Hours)

- AADS 4499:Senior Seminar
Or any 3000/4000 level Research Methods course approved by faculty advisor
- ISD 3100:Interdisciplinary Studies Research Methods

Area I: Cultural Production & Expression (6 Credit Hours)

Select two courses for a total of 6 credit hours:

- AADS 3200:Race and Technology
- AADS 3300:Black Popular Culture
- AADS 3310:Introduction to Hip Hop Studies
- AADS 3510:Black Women Writers
- ENGL 3360:Major African American Writers
- ENGL 3400:Survey of African Literatures
- ENGL 3500:Topics in African American Literature
- ENGL 3600:Topics in African Diaspora Literatures
- MUSI 3411:Survey of African-American Music

Area II: Social & Structural Analysis (6 Credit Hours)

Select two courses for a total of 6 credit hours:

- AADS 3400:Black Activism in Brazil
- AADS 3500:The Black Woman
- AADS 3520:Black Masculinities
- AADS 3550:Black Women's Health
- AADS 4031:Black Panthers
- AADS 4500:Power, Privilege, and Policy
- AADS 4550:Black Genocide
- GWST 3020:Black Feminisms

Area III: Historical Investigation (6 Credit Hours)

Select two courses for a total of 6 credit hours.

- AADS 3440:Black Biography
- HIST 3333:African American History to 1865
- HIST 3334:The Africans in the Diaspora
- HIST 3335:African American History, 1865 to Present
- HIST 3357:Africans in Asia
- HIST 3358:Africans in Latin America and the Caribbean
- HIST 3382:North Africa and Middle East in Modern Times
- HIST 3391:History of West Africa
- HIST 3392:History of Southern, Eastern and Central Africa
- HIST 4391:Emerging Themes in African History
- HIST 4905:History of the Atlantic World

Area IV: Community and Professional Engagement (3 Credit Hours)

Select one course from the the following:

- AADS 3380:Study Abroad
- AADS 4100:Directed Applied Research
- ISD 3398:Interdisciplinary Studies Internship

AADS Electives (6 Credit Hours)

Any 3000-4000 level courses in AADS Areas I, II, III, or IV that are not being used to fulfill the requirements for those areas.

- AADS 3780:Trends in African and African Diaspora Studies
- AADS 4040:Major Issues and Figures
- AADS 4400:Directed Study in AADS
- AADS 4490:Special Topics in African and African Diaspora Studies
- ANTH 3310:Cultural Diversity in the U.S.
- ANTH 3360:Anthropology and Africa
- ANTH 3365:Afro-Brazilian Culture and Politics
- ARH 3100:African Art and Architecture
- ARH 3300:Ancient Egyptian and Nubian Art and Architecture
- ARH 4150:African-American Art
- FREN 4434:Topics in Language, Literature, and Culture
- GEOG 3350:Geography of Sub-Saharan Africa
- POLS 3328:African American Politics
- POLS 4412:Urban Affairs and Problems
- POLS 4454:Politics of the Middle East
- POLS 4455:International Relations of Africa
- PSYC 3355:Cross-Cultural Psychology
- PSYC 3385:Ethnic Minority Psychology
- SOCI 3314:Race and Ethnicity
- SOCI 3350:Intersections of Race, Class, and Gender

- SOCI 4434:Emerging Social Issues in Africa
Any other AADS-related course approved by faculty advisor. AADS-related courses do not have to have the AADS prefix.

Related Studies (15 Credit Hours)

Fifteen hours of upper-division (3000/4000 level) studies from the prefixes provided below. These could be courses not already taken from the above list of upper-division major requirements and electives, foreign language, study abroad, internship, directed study, student's area of interest, or courses from previous major. Approved prefixes: AADS, ACCT, AMST, ANIM, ANTH, ARED, ARH, ART, ARTH, ASIA, BIOL, BLAW, BUSA, CHEM, CHIN, COM, CRJU, CS, CSH, DANC, ECE, ECON, EDMG, EDRD, EDUC, ENED, ENGL, ES, EURO, FIN, FL, GEOG, GRMN, GWST, HIED, HIST, HON, HPE, HS, INED, IS, IT ITAL, ITEC, JOUR, JPN, KOR, LALS, LDRS, LING, MATH, MEBU, MENT, MGT, MKTG, MUSI, ORGC, PAX, PHED, PHIL, POLS, PORT, PR, PSYC, RELS, SCI, SM, SOCI, SPAN, STAT, STS, TCID, TCOM, TPS, WRIT.

Free Electives (12 Credit Hours)

Choose any courses from the KSU undergraduate catalog.

Program Total (120 Credit Hours)

Anthropology, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/bsa.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Bachelor of Science with a major in Anthropology provides students with a solid foundation of disciplinary knowledge that prepares them for diverse professional employment opportunities and graduate school. The Anthropology major encompasses a broad education about human biological, behavioral, and cultural stability and change and the comparative study of contemporary societies and cultures around the planet. Majors will take courses in cultural theory and practice, physical anthropology, and archaeology, in addition to foundational courses in the field of anthropology.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

General Education Core Curriculum Requirements Specific to this Major:

- Area D1: STAT 1401

Lower Division Major Requirements (Area F) (18 Credit Hours)

Required Courses (6 Credit Hours)

- Foreign language 1002 or higher (or elective from list below if FL 1002 is used in Area B)
- ANTH 1102:Introduction to Anthropology

Electives (12 Credit Hours):

Select any two 1000 or 2000 level courses from ANTH Select any two 1000 or 2000 level courses from ANTH, HIST, GEOG, PHIL, POLS, PSYC, SOCI

Major Requirements (39 Credit Hours)

Foundations in Anthropology (15 Credit Hours)

- ANTH 3300:Anthropological Theory
- ANTH 3301:Human Origins
- ANTH 3303:Introduction to Linguistic Anthropology
- ANTH 3305:Principles of Archaeology
- ANTH 3307:Cultural Anthropology

Anthropological Applications (6 Credit Hours)

- ANTH 3397:Anthropology Practicum
or
- ANTH 3398:Internship in Anthropology
- ANTH 4450:Research Methods in Anthropology

Upper Division Elective Courses (18 Credit Hours)

Select 18 hours (6 courses) from those listed below or any other 3000-4000 level ANTH course not listed. Each student must take at least one course from each of the areas: Cultural Anthropology, Physical Anthropology, and Archaeology.

Cultural Anthropology

- ANTH 3310:Cultural Diversity in the U.S.
- ANTH 3315:Indigenous Peoples of the Southeast United States
- ANTH 3340:Religion, Magic, and Culture
- ANTH 3345:Food and Culture
- ANTH 3350:Cultures and Societies of the World
- ANTH 3355:Capitalisms and Cultures in Asia
- ANTH 3360:Anthropology and Africa
- ANTH 3365:Afro-Brazilian Culture and Politics
- ANTH 3521:Ethnography of Media: Global Perspectives
- ANTH 3777:Global Ethnographies of Labor
- ANTH 3999:Anthropology of Gender
- ANTH 4430:Environmental Anthropology Field Methods

Physical Anthropology

- ANTH 3320:Methods in Biological Anthropology
- ANTH 4405:Human Variation
- ANTH 4420:Lab in Forensic Anthropology
- ANTH 4411:Bioarchaeology of Greece
- ANTH 4423:Bone Biomechanics

Archaeology

- ANTH 3321:Indigenous Peoples of North America
- ANTH 3335:Archaeology Field Techniques
- ANTH 3380:Maya Archaeology
- ANTH 3390:Lab in Archaeology
- ANTH 4421:North American Archaeology
- ANTH 4422:Archaeology of Asia
- ANTH 4425:Historical Archaeology
- ANTH 3375:Engaged Archaeology

Note: (A study abroad course with prior approval of the department or ANTH 4490 can be used to fulfill a requirement in the Upper Division Elective area.)

Upper Electives (9 Credit Hours)

Nine hours of upper-division studies beyond the major requirements. 3000-4000 level ANTH courses are permitted in this area. Additional internships may also be approved when deemed appropriate.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Asian Studies, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/baas.php>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Asian Studies program at Kennesaw State explores diverse topics and themes on linguistic, literary, cultural, philosophic-religious, aesthetic, social, institutional-political, educational and other related spheres of Asian people and civilization. The program also endeavors to explain the complex interactions among them in terms of both tradition and transformation. Some emphasis is placed not only on the cultural diversity, unity and achievements of Asian countries but also on the comparative and interdisciplinary ways of promoting a broader and deeper understanding of the East. This enterprise may shed new light on Western civilizations, histories, traditions, cultures and modern changes.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Required (3 Credit Hours)

- ASIA 1102:Introduction to Asian Cultures

Lower Division Language Requirements (Choose One Language): (9 Credit Hours)

Nine credit hours of Asian Languages (the three courses must be in the same language) are required.

- CHIN 1002:Introduction to Chinese Language and Culture II
- CHIN 2001:Intermediate Chinese Language and Culture I
- CHIN 2002:Intermediate Chinese Language and Culture II
- OR
- JPN 1002:Introduction to Japanese Language and Culture II
- JPN 2001:Intermediate Japanese Language and Culture I
- JPN 2002:Intermediate Japanese Language and Culture II
- OR
- KOR 1002:Introduction to Korean Language and Culture II
- KOR 2001:Intermediate Korean Language and Culture I
- KOR 2002:Intermediate Korean Language and Culture II

Lower Division Electives (6 Credit Hours)

Students must take two courses (six credit hours) from the list below.

- ANTH 1102:Introduction to Anthropology
- ECON 2106:Principles of Microeconomics
- ENGL 2110:World Literature
- GWST 2050:Global Perspectives on Gender
- ICT 2101:Information and Communications Technology
- PHIL 2110:Religions of the World
- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations
- BLAW 2200:Legal and Ethical Environment of Business

Major Requirements (21 Credit Hours)

Required (3 Credit Hours)

- ASIA 3001:Understanding Asia

Research Methods (3 Credit Hours)

Select one course from the following.

- ISD 3100:Interdisciplinary Studies Research Methods

- HIST 3100:Historical Methods

Upper Division Major Electives (15 Credit Hours)

Select five courses for a total of 15 credit hours from the following.

- ANTH 3355:Capitalisms and Cultures in Asia
- ASIA 3306:Understanding China through Films
- ASIA 3309:Survey of Chinese Literature and Culture
- ASIA 3340:Contemporary South Asian Literature
- ASIA 3500:Culture & Society of Postwar Japan
- ASIA 3760:Asian American Cultural Identities
- ASIA 3780:Trends in Asian Studies
- ASIA 4400:Directed Study
- ASIA 4422:Archaeology of Asia
- ASIA 4490:Special Topics for Asian Studies
- ASIA 4517:Tea Cultures in Asia
- HIST 3372:Ancient to Pre-Modern China
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- HIST 3375:Silk Road
- HIST 3380:Premodern Japan
- HIST 3381:Modern Japan
- ISD 3398:Interdisciplinary Studies Internship
- MGT 3100:Management and Behavioral Sciences
- MKTG 3100:Principles of Marketing
- ORGC 3325:Intercultural Communication
- SA 4490:Upper-division Study Abroad
- SOCI 4435:Sociology of South Asia

Upper Division Asian Language Requirements (12 Credit Hours)

Complete four courses for a total of twelve credit hours in one language.

- CHIN 3200:Critical Reading and Applied Writing
- CHIN 3302:Practical Conversation
- CHIN 3303:Grammar and Composition
- CHIN 3304:Readings in Culture I
- Or
- JPN 3200:Critical Reading and Applied Writing
- JPN 3302:Practical Conversation
- JPN 3303:Grammar and Composition
- JPN 3304:Readings in Culture I
- Or
- KOR 3200:Critical Reading and Applied Writing
- KOR 3302:Practical Conversation

- KOR 3303:Grammar and Composition
- KOR 3304:Readings in Culture I

Asian Studies Concentrations (12 Credit Hours)

Please select four courses in the chosen concentration for a total of 12 credit hours.

Asian Cultures Concentration

If the courses were taken to complete the Upper Division Major Requirements, select four additional courses to satisfy this concentration.

- ANTH 3340:Religion, Magic, and Culture
- ANTH 3345:Food and Culture
- ARH 3000:Asian Art and Architecture
- ASIA 3306:Understanding China through Films
- ASIA 3355:Cultures and Capitalisms in Asia
- ASIA 3500:Culture & Society of Postwar Japan
- ASIA 3760:Asian American Cultural Identities
- ASIA 3780:Trends in Asian Studies
- ASIA 4422:Archaeology of Asia
- ASIA 4490:Special Topics for Asian Studies
- ASIA 4517:Tea Cultures in Asia
- ASIA 3340:Contemporary South Asian Literature
- FL 3309:Survey of Chinese Literature and Culture
- GEOG 3360:Geography of Asia
- GWST 3030:Gender in Popular Culture
- PHIL 3200:Asian Philosophy
- PHIL 4200:Indian Philosophy
- PHIL 4210:Chinese Philosophy
- PHIL 4220:Japanese Philosophy
- PSYC 3355:Cross-Cultural Psychology
- PSYC 3385:Ethnic Minority Psychology

History and Politics Concentration

If the courses were taken to complete the Upper Division Major Requirements, select four additional courses to satisfy this concentration.

- AMST 3710:U.S. in the World
- AMST 3740:American Popular Culture
- ASIA 3306:Understanding China through Films
- ASIA 3500:Culture & Society of Postwar Japan
- ASIA 4457:South Asian Politics: A Comparative Perspective
- GWST 3090:Transnational Feminisms
- HIST 3357:Africans in Asia

- HIST 3372:Ancient to Pre-Modern China
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- HIST 3375:Silk Road
- HIST 3379:Central Asia in World History
- HIST 3380:Premodern Japan
- HIST 3381:Modern Japan
- NURS 4423:International Health Policy
- POLS 4430:International Law and Organization
- POLS 4435:Comparative Foreign Policy
- POLS 4436:Politics of Developing Areas
- POLS 4452:Politics of East Asia
- POLS 4454:Politics of the Middle East

Asian Business Concentration

If MGT 3100 or MKTG 3100 has been taken as a course in the "Upper Division Major Requirements" area, students must choose four other courses here.

- ASIA 3500:Culture & Society of Postwar Japan
- ASIA 3950:Technology Strategy in Asia
- BLAW 3400:Negotiation
- BLAW 4500:Franchise Law
- BLAW 4600:International Law: Business Applications
- BLAW 4960:Current Issues in Business Ethics and Law
- ECON 4310:Economic Development in Global Perspective
- ECON 4410:International Trade and Finance
- IS 3220:Global IS Project Management
- MGT 4174:International Human Resource Management
- MGT 4190:International Management
- ENTR 4125:International Entrepreneurship
- MGT 3100:Management and Behavioral Sciences
- MGT 3190:Business, Ethics, and Society
- MGT 3600:Introduction to International Business
- MKTG 4650:Advertising
- MKTG 4820:International Marketing
- MKTG 4870:Sports Marketing
- MKTG 4880:Hospitality and Tourism Marketing
- MKTG 4450:Sales Management
- MKTG 4500:Internet Marketing and Global Business
- MKTG 4520:Social Media Marketing
- MKTG 3100:Principles of Marketing
- MKTG 3800:Entertainment Marketing
- GWST 3060:Gender in the Workplace
- IS 3100:Information Systems Management

TEFL (Teaching English as a Foreign Language) Concentration

Required:

- ASIA 4001:Teaching English in Asia
- FLED 4408:Second Language Acquisition

Choose Two:

- ASIA 3355:Cultures and Capitalisms in Asia
- ASIA 4422:Archaeology of Asia
- ARH 3000:Asian Art and Architecture
- ASIA 3500:Culture & Society of Postwar Japan
- ASIA 3760:Asian American Cultural Identities
- ASIA 3780:Trends in Asian Studies
- ASIA 4490:Special Topics for Asian Studies
- ASIA 4517:Tea Cultures in Asia
- ASIA 3340:Contemporary South Asian Literature
- ASIA 3309:Survey of Chinese Literature and Culture
- FLED 4410:Methods, Materials, and Curriculum of Foreign Language Education, P-8
- FLED 4412:Methods, Materials, and Curriculum of Foreign Language Education, 9-12
- INED 4430:Applied Linguistics and English Language Literacy
- LING 3035:Introduction to Language and Linguistics

Free Electives (15 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Criminal Justice, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/scj/>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

The Criminal Justice system is an institution that is at the crux of societal concern. When individuals are asked to define major social problems, the fear of and response to crime are found at the top of the list. People not only want to have a better understanding of these problems; many also want to become a part of the solution. It is these individuals who will be the primary beneficiaries of the Criminal Justice major at KSU. The secondary beneficiaries are members of the community;

university educated criminal justice personnel make better criminal justice practitioners. This program of study is timely and relevant. It infuses knowledge about interpersonal communication skills, multicultural issues, leadership and management concerns, moral and ethical considerations, and technological applications into the coursework.

The program is appropriate for pre-service as well as in-service students.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- CRJU 1101:Foundations of Criminal Justice
 - CRJU 2201:Crimes and Defenses
 - SOCI 1101:Introduction to Sociology
 - Select three of the following:
 - ACCT 2101:Principles of Accounting I
 - COM 2240:Communication Law, Ethics and Diversity
 - GEOG 1130:World Regional Geography
 - HS 2100:Overview of Human Services
 - ICT 2101:Information and Communications Technology
 - LDRS 2100:Leadership & Historic Social Movements
 - POLS 2212:State and Local Government
 - SOCI 2251:Social Problems
 - SPAN 2034:Spanish for Criminal Justice
 - FL 1001:Introduction to Foreign Language and Culture I
- OR

- SPAN 1001:Introduction To Spanish Language and Culture I

Major Requirements (27 Credit Hours)

- CRJU 3300:Criminal Courts
- CRJU 3301:Research Methods in Criminal Justice
- CRJU 3315:Criminal Procedure
- CRJU 3332:Corrections
- CRJU 4100:Ethics in Criminal Justice
- CRJU 4499:Senior Seminar in Criminal Justice
- SOCI 4432:Criminology
- CRJU 3310:Police in America
OR
- CRJU 3311:Police Administration
Complete three credit hours from one of the following:
- CRJU 3396:Cooperative Study
OR
- CRJU 3398:Internship
OR
- SA 4490:Upper-division Study Abroad

Cultural Diversity (3 Credit Hours)

Select one course from the following:

- CRJU 3355:Race, Crime, and Justice
- SOCI 3314:Race and Ethnicity
- SOCI 3350:Intersections of Race, Class, and Gender
- ANTH 3307:Cultural Anthropology
- ANTH 3310:Cultural Diversity in the U.S.

Criminal Justice Electives (12 Credit Hours)

Select 12 credit hours from the following:

- CRJU 3305:Technology and Criminal Justice
- CRJU 3310:Police in America
- CRJU 3311:Police Administration
- CRJU 3312:State and Federal Law Enforcement Initiatives
- CRJU 3320:Criminal Investigation
- CRJU 3340:Legal Analysis
- CRJU 3352:Juvenile Justice
- CRJU 3355:Race, Crime, and Justice
- CRJU 3365:Profile of the Serial Offender
- CRJU 3398:Internship
- CRJU 3400:Ideological/Group Violence and Law Enforcement

- CRJU 4300:Organized Crime
- CRJU 4305:Technology and Cyber Crime
- CRJU 4400:Directed Study in Criminal Justice
- CRJU 4410:Criminal Profiling and Analysis
- CRJU 4430:Victimology
- CRJU 4490:Special Topics in Criminal Justice
- SOCI 3360:Sociology of Violence
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4442:Deviance and Social Control

Related Studies (6 Credit Hours)

Select 6 hours of upper division course work (3000-4000 level) from the following list of prefixes: AADS, AMST, ANTH, ASIA, BIOL, BUSA, CHEM, COM, CRJU, ECON, ENGL, ENVS, EUST, FILM, FL, GEOG, GIS, GWST, HIST, HON, IAD, ISD, JOUR, LING MENT, MILS, ORGC, PAX, PHIL, POLS, PR, PSYC, RELS, SA, SCI, SOCI, SPAN, STAT, STS, TCID, TCOM, or WRIT.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

English Education, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/english/ed-programs/bsee.php>

Phone: (470) 578-6297

Email: ksuenglish@kennesaw.edu

Program Description

This single field program is designed to prepare English teachers of adolescents, largely at the secondary school level (grades 6 through 12). It leads to 6-12 teacher certification in the teaching field of English/Language Arts in Georgia. Candidates complete the equivalent of a major in English/Language Arts and a second major in pedagogical studies with an emphasis on teaching English/Language Arts.

The English Education program aims to prepare teachers who have a broad, rich knowledge of the discipline of English (including courses in British, American, and world literature, language theory, and writing) and who enact an integrated, reflective, and theoretically informed pedagogy for English/Language Arts.

Admission Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or higher.
- EDUC 2110* with a grade of "C" or better, a satisfactory field experience evaluation *or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessments (test codes 210, 211, & 212 or combined test 710)

- Pass the Georgia Educator Ethics Assessment (test code 360)

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016 OR 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 OR 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) OR 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper-level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Accreditation

This program is fully accredited by CAEP (the Council for the Accreditation of Educator Preparation), is nationally recognized by NCTE (National Council of Teachers of English), and is fully approved by Georgia's Professional Standards Commission for teacher certification.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Register for an account with the Georgia Professional Standards Commission (<http://mypsc.org>) as soon as possible. Apply for Teacher Education Program (TEP) through Owl Express while taking EDUC 2110 (with teacher recommendation), passing or exempting GACE Program Admission (<http://gace.ets.org>), acquiring a 2.75 GPA, and earning at least 45 hours of accredited college coursework.

- EDUC 2110: Investigating Critical and Contemporary Issues in Education
- EDUC 2120: Sociocultural Influences on Teaching and Learning
- ENGL 2145: Introduction to English Studies
- ENGL 2160: American Literature Survey
- ENGL 2172: British Literature, Beginnings to 1660
- ENGL 2174: British Literature, 1660 to Present

Major Requirements (36 Credit Hours)

- ENGL 2271: Introduction to Teaching English Language Arts
- ENGL 3241: Technology and Digital Media in English/Language Arts
- ENGL 3310: Principles of Writing Instruction
- ENGL 3391: Teaching Literature to Adolescents
- ENGL 4340: Shakespeare
- EDRD 3320: Understanding the Reader and the Reading Process
- LING 3025: Linguistics for Education
- or
- LING 3035: Introduction to Language and Linguistics

- EDUC 2130:Exploring Teaching and Learning

Other Teaching Field Requirements

Cultural Studies of Literature (3 Credit Hours)

Choose One:

- ENGL 3320:Scriptural Literature
- ENGL 3330:Gender Studies
- ENGL 3340:Ethnic Literatures
- ENGL 3342:Topics in Native American Literature
- ENGL 3350:Regional Literature
- ENGL 3360:Major African American Writers
- ENGL 3400:Survey of African Literatures
- ENGL 3500:Topics in African American Literature
- ENGL 3600:Topics in African Diaspora Literatures
- ENGL 4401:Topics in African Literatures
- AMST 3700:American Studies: Principles and Methods
- AMST 3710:U.S. in the World
- AMST 3740:American Popular Culture
- AMST 3750:Place in American Culture
- AMST 3760:Advanced Studies in American Identities
- AMST 3770:American Cultural Productions
- AMST 3780:American Cultural Movements

Studies in Pre-20th-Century Literature (3 Credit Hours)

Choose One:

- ENGL 4370:Medieval Literature
- ENGL 4374:Restoration and Eighteenth-Century Literature
- ENGL 4460:19th-Century American Literature
- ENGL 4470:19th-Century British Literature
- ENGL 4480:19th-Century World Literature

Studies in 20th- and 21st-Century Literature (3 Credit Hours)

Choose One:

- ENGL 4560:20th-Century and 21st-Century American Literature
- ENGL 4570:20th-Century and 21st-Century British Literature
- ENGL 4580:20th-Century and 21st-Century World Literature

Yearlong Clinical Experience (24 Credit Hours)

- ENED 4414:Teaching of English Language Arts I

- ENED 4416:Teaching English Language Arts II
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- ENED 4650:Yearlong Clinical Experience in ELA I
- ENED 4660:Yearlong Clinical Experience in ELA II
- INED 3300:Educating Students with Exceptionalities in Inclusive Settings
- INED 4431:Foundations for Teaching Diverse English Learners

Note: Take GACE II Subject Area - English I and II (<http://gace.ets.org>) only during student teaching. These tests are required for certification.

Program Total (120 Credit Hours)

English, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/english/programs/bae.php>

Phone: (470) 578-6297

Email: ksuenglish@kennesaw.edu

Program Description

English majors take 18 hours of courses in lower-division major requirements. These courses are designed as an introduction to the field of English Studies. At the 3000/4000 level, students choose one course from each of eight categories: Language, Writing, Genres, Cultural Studies, Theory, and three period requirements. The English major culminates in the Senior Seminar, which is the major's capstone course. All English majors must demonstrate competence in foreign languages up through the level of FL 2002.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- FL 1002:Introduction to Foreign Language and Culture II
- FL 2001:Intermediate Foreign Language and Culture I
- ENGL 2145:Introduction to English Studies
- ENGL 2160:American Literature Survey
- ENGL 2172:British Literature, Beginnings to 1660
- ENGL 2174:British Literature, 1660 to Present

Major Requirements (33 Credit Hours)

At least 24 of these 33 hours must be taken at Kennesaw State.

Three hours from each of the following nine groups (27 Credit Hours)

I. Intermediate Foreign Language

- FL 2002:Intermediate Foreign Language and Culture II

II. Linguistics

- LING 3045:Grammar of Contemporary American English
- LING 3050:Sociolinguistics
- LING 3020:Linguistics and Literature
- LING 3025:Linguistics for Education
- LING 3030:Studies in Grammar and Linguistics *
- LING 3035:Introduction to Language and Linguistics
- LING 3040:History of the English Language
- LING 3055:Politics and Language
- LING 3760:World Englishes

III. Writing

- WRIT 3000:Introduction to Creative Writing Genres
- WRIT 3100:Poetry Writing
- WRIT 3109:Careers in Writing
- WRIT 3110:Playwriting
- WRIT 3111:Professional Editing
- WRIT 3120:Fiction Writing
- WRIT 3125:Interactive Narrative & Games

- WRIT 3130:Literary Nonfiction
- WRIT 3140:Writing in the Workplace
- WRIT 3150:Topics in Digital Rhetoric *
- WRIT 3151:Digital Storytelling
- WRIT 3152:Digital Community Engagement
- WRIT 3160:Argumentative Writing *
- WRIT 3210:Graphic Storytelling
- WRIT 3170:Environmental Writing and Literature
- WRIT 3650:Introduction to Literacy Studies
- WRIT 3810:Research Methods for Writers
- FILM 3105:Introduction to Screenwriting
- FILM 3125:Introduction to TV Writing

IV. Genres

- ENGL 3230:Literary Genre
- ENGL 3232:Topics in Drama *
- FILM 3220:Topics in American Cinema
- FILM 3240:Film Genres and Movements
- FILM 3250:Film Authors
- FILM 3200:Film History I
- FILM 3210:Film History II
- FILM 3215:Film History III
- FILM 3230:Topics in World Cinema

V. Cultural Studies of Literature

- ENGL 3320:Scriptural Literature *
- ENGL 3322:Hebrew Scriptures as Literature
- ENGL 3324:New Testament as Literature
- ENGL 3330:Gender Studies *
- ENGL 3340:Ethnic Literatures *
- ENGL 3342:Topics in Native American Literature
- ENGL 3350:Regional Literature *
- ENGL 3360:Major African American Writers *
- ENGL 3400:Survey of African Literatures
- ENGL 3500:Topics in African American Literature *
- ENGL 3510:Black Women Writers
- ENGL 3600:Topics in African Diaspora Literatures
- ENGL 4401:Topics in African Literatures *
- AMST 3700:American Studies: Principles and Methods
- AMST 3710:U.S. in the World
- AMST 3730:Introduction to Native American Studies
- AMST 3740:American Popular Culture
- AMST 3750:Place in American Culture

- AMST 3760:Advanced Studies in American Identities
- AMST 3770:American Cultural Productions
- AMST 3780:American Cultural Movements

VI. Theory

- ENGL 4220:Critical Theory
- ENGL 4230:Theory-Based Studies in Literature *
- ENGL 4240:Rhetorical Theory
- FILM 4200:Theory-Based Studies in Film

VII. Studies in Literature Before 1800

- ENGL 4340:Shakespeare *
- ENGL 4360:American Literature Before 1800 *
- ENGL 4370:Medieval Literature
- ENGL 4372:British Renaissance Literature
- ENGL 4374:Restoration and Eighteenth-Century Literature
- ENGL 4380:World Literature Before 1800 *

VIII. Studies in 19th-Century Literature

- ENGL 4460:19th-Century American Literature *
- ENGL 4470:19th-Century British Literature *
- ENGL 4480:19th-Century World Literature *

IX. Studies in 20th-Century and 21st-Century Literature

- ENGL 4560:20th-Century and 21st-Century American Literature *
- ENGL 4570:20th-Century and 21st-Century British Literature *
- ENGL 4580:20th-Century and 21st-Century World Literature *

Note: *This course can be taken up to two times (6 credit hours) for credit toward graduation.

Senior Seminar (3 Credit Hours)

- ENGL 4620:Senior Seminar

Elective (3 Credit Hours)

Any 3000 or 4000 level course with the prefix ENGL, FILM, WRIT, or LING.

Upper Division Electives (9 Credit Hours)

9 hours of upper-division studies can be selected from any 3000- or 4000-level courses in the university curriculum.

Free Electives (18 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Geography, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/bag.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Bachelor of Arts with a major in Geography provides students with an understanding of various aspects of the Earth, including its physical features, the role of humans in modifying the Earth, and the relationships between peoples and places.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

General Education Core Curriculum Requirements Specific to This Major:

- Area D1: STAT 1401 (recommended)
- Area D2: GEOG 1112 or GEOG 1113
 - It is required that Geography majors complete Geog 1112 or Geog 1113 with a grade of "C "or higher. It must be taken as a free elective if not taken in Area D

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ANTH 1102:Introduction to Anthropology

Or

- GEOG 1101:Introduction to Human Geography

Or

- GEOG 1130:World Regional Geography

- GEOG 1102:Earth from Above

Select one 1000- or 2000- level course from GEOG or related disciplines (ANTH, AADS, AMST, ASIA, ENVS, FL, GWST, HIST, LALS, PAX, PHIL, POLS, PSYC, RELS, SOC, or STS). (3 credit hours)

- GEOG 2200:Research Methods
 - FL 2001:Intermediate Foreign Language and Culture I
- Or
- SOCI 1101:Introduction to Sociology (if FL 2001 satisfied under General Education requirements)
 - FL 2002:Intermediate Foreign Language and Culture II

Major Requirements (27 Credit Hours)

Major Requirements (6 Credit Hours)

Select two (2) Courses:

- GEOG 3398:Internship
- or
- GEOG 4100:Directed Applied Research
 - GEOG 4499:Senior Seminar in Geography

Select a total of 7 Courses (21 Credit Hours):

Choose two courses from Group A listed below. Choose one course from Group B listed below. Choose any four courses from Groups A, B, C, and/or D listed below.

Group A: Human/Regional Geography

- GEOG 3300:Urban Geography
- GEOG 3310:Historical Geography
- GEOG 3312:Geography of Europe
- GEOG 3320:Political Geography
- GEOG 3330:Economic Geography
- GEOG 3340:Cultural Geography
- GEOG 3345:Population Geography

- GEOG 3350:Geography of Sub-Saharan Africa
- GEOG 3360:Geography of Asia
- GEOG 3370:Geography of Latin America and the Caribbean
- GEOG 3380:Geography of North America
- GEOG 3390:Geography of the Middle East and North Africa

Group B: Physical/Environmental Geography

- GEOG 3700:Introduction to Environmental Studies
- GEOG 3800:Climatology
- GEOG 3850:Global Climate Change
- GEOG 3900:Biogeography
- GEOG 4700:Geomorphology

Group C: Geographic Techniques

- GEOG 3305:Introduction to Cartographic Processes
- GEOG 3315:Introduction to Geographic Information Systems
- GEOG 4405:Advanced Geographic Information Systems
- GEOG 4410:Introduction to Remote Sensing

Group D: Miscellaneous Courses

Study Abroad 3000-4000 level (any subject)

- GEOG 4490:Special Topics in Geography

Related Studies (18 Credit Hours)

Upper-division studies beyond the major requirements as approved by the academic advisor.

Free Electives (15 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Geospatial Sciences, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/bsgs.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Bachelor of Science with a major in Geospatial Sciences (GSS) integrates various geospatial technologies with applied research domains. The GSS program aims at producing high caliber graduates who are well trained in the theory and application of geospatial technologies, including GIS, remote sensing, and land surveying. Students receive fundamental knowledge of geospatial skills, along with specific content in one of three concentration: human-environment systems, information systems, or land surveying. Geospatial Sciences provide students a set of skills to manipulate, analyze, assess, and visualize data by way of digital maps and/or map imagery to solve problems. Graduates of the major have obtained geospatial jobs related to crime analysis, emergency services, engineering, epidemiology, environmental management, forestry, housing, marketing, military sciences, sustainability, land surveying, transportation, urban planning, and utilities, among others.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- GEOG 1102:Earth from Above
- GEOG 2391:Professionalism and Ethics

Select one of the following:

- GEOG 1101:Introduction to Human Geography
- GEOG 1125:Resources, Society, and the Environment
- GEOG 1130:World Regional Geography

Select one of the following:

- GEOG 1112:Weather and Climate
- GEOG 1113:Introduction to Landforms

Choose any two 1000 or 2000 level course from any discipline for a total of 6 Credit Hours

Major Requirements (24 Credit Hours)

- GEOG 3305:Introduction to Cartographic Processes
- GEOG 3315:Introduction to Geographic Information Systems
- GEOG 4405:Advanced Geographic Information Systems
- GEOG 4410:Introduction to Remote Sensing
- SURV 3320:Photogrammetry and Drone Analysis
- Select three courses: Two from Group A, and one from Group B for a total of 9 credit hours.

Group A: GIS and Remote Sensing

Select two from the following:

- GEOG 4500:Advanced Topics in Geospatial Science * may be repeated for credit if the topics are different.
- GIS 3398:Internship **This is an extra 3 hours in addition to the required 6 hours for the Human-Environment Systems and Information Systems concentrations.
- GIS 4100:Directed Applied Research
- SURV 3451:Terrain Analysis

Group B: Experience Courses

Select one from the following:

- GEOG 4100:Directed Applied Research
- GEOG 4499:Senior Seminar in Geography
- Any 3000/4000 level Study Abroad course

Major Concentration (36 Credit Hours)

Select one of the following concentrations:

Human-Environmental Concentration

Human-Environment Systems Required Courses (9 Credit Hours)

- GEOG 2200:Research Methods
or
- TCOM 2010:Technical Writing
- GIS 3398:Internship

Human-Environment Systems Electives (12 Credit Hours)

Select one course (3 credits) from the Physical and Environmental list.
Select one course (3 credits) from the Human and Society list.

The remaining two courses (6 credits) can be taken from either list.

Physical and Environmental Courses

- ANTH 4430:Environmental Anthropology Field Methods
- ENVS 3720:Sustainability at KSU
- ENVS 3730:Natural Resource Management
- GEOG 3700:Introduction to Environmental Studies
- GEOG 3800:Climatology
- GEOG 3850:Global Climate Change
- GEOG 3900:Biogeography
- GEOG 4700:Geomorphology
- POLS 3356:U.S. Environmental Policy & Politics
- POLS 4456:International Environmental Policy

Human and Society Courses

- ANTH 3307:Cultural Anthropology
- GEOG 3000:Geography of Beer
- GEOG 3300:Urban Geography
- GEOG 3310:Historical Geography
- GEOG 3320:Political Geography
- GEOG 3330:Economic Geography
- GEOG 3340:Cultural Geography
- GEOG 3345:Population Geography
- POLS 4412:Urban Affairs and Problems
- SOCI 4464:Population and Demography

Free Electives (15 Credit Hours)

Select any 15 credit hours from the university catalog.

Information Systems Concentration

Information Systems Required Courses (9 Credit Hours)

- IS 2200:Information Systems and Communication
- GIS 3398:Internship

Information Systems Elective Courses (12 Credit Hours)

Select any four of the following for a total of 12 credit hours:

- IS 3020:Application Development I
- IS 3100:Information Systems Management
- IS 3220:Global IS Project Management

- IS 3260:Web Development I
- IS 3280:Data Management
- IS 3740:Human Computer Interaction
- IS 3760:Web Development II
- IS 4560:e-Business Systems
- ISA 3100:Principles of Information Security

Free Electives (15 Credit Hours)

Select any 15 credit hours from the university catalog.

Land Surveying Concentration

Upon completion of the Geospatial Science, BS degree requirements and this concentration students will be awarded the Land Surveying Certificate.

Land Surveying Required Courses (27 Credit Hours)

Students will complete the Land Surveying Certificate (18 Credit Hours) plus the following courses.

- EDG 2160:Civil Graphics and Computer Aided Drafting
- SURV 3451:Terrain Analysis
- SURV 4110:Geospatial Sciences Practice

Free Electives (9 Credit Hours)

Select any 9 credit hours from the university catalog.

Program Total (120 Credit Hours)

History Education B.S.

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/programs/bshe.php>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

This program is designed to prepare teachers of adolescents, largely at the secondary school level. It leads to 6-12 teacher certification in the teaching field of history in Georgia. Candidates complete the equivalent of a major in history and a second major in pedagogical studies. Candidates concentrate in history as this is the principal social science discipline in the secondary education curriculum and take additional course work in several other social science disciplines as part of their cross-disciplinary teaching field preparation.

Admission Requirements

Admission to teacher education is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

Candidates typically apply for admission to Teacher Education as sophomores after having completed most of their general education requirements. Applications for admission to Teacher Education should be submitted online through Owl Express under the "Student Services" menu.

A criminal history background check will be performed prior to admission to Teacher Education. In addition, if determined by the background check that a student is a multi-state offender, the student will be required to pay a fee and be fingerprinted. Results of either the criminal history background check and/or fingerprinting may preclude admission to teacher education. For more information on the criminal history process, students should contact the Center for Education Placements and Partnerships (CEPP).

In order to be considered for admission to teacher education programs, candidates must have completed the following requirements:

1. Coursework:

- At least 36 semester hours of accredited college coursework.
- ENGL 1101 and ENGL 1102 with grades of "C" or higher.
- EDUC 2110* with a grade of "C" or higher, a satisfactory field experience evaluation *or provide proof of credit from an approved Georgia Pathways Program

2. GPA requirements:

- Achieved a minimum, adjusted or cumulative GPA of 2.75 for all coursework completed at Kennesaw State University. However, only candidates who have earned a KSU adjusted or cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. Students with a 2.75-2.99 GPA will be admitted on a case-by-case basis.
- Transfer students with a cumulative transfer GPA (as used by KSU Admissions) may be considered for teacher education admission their first semester at KSU. Only candidates who have achieved a transfer cumulative GPA of 3.00 or higher will be guaranteed admission when all other admission requirements have been met. After their first semester at KSU without teacher education admission, transfer students will be required to earn a cumulative or adjusted KSU GPA as explained above.
- No grade lower than "C" in Lower Division Major and Teaching Field courses as required by the programs in teacher education.

3. Register with the Georgia Professional Standards Commission to obtain a MyPSC account and PSC identification number.

4. Entrance exams requirements:

- Pass or exempt* the GACE Program Admission Assessments (test codes 210, 211, & 212 or combined test 710)

- Pass the Georgia Educator Ethics Assessment (test code 360)

5. Some degree programs in teacher education have additional admissions requirements. It is the student's responsibility to consult those departments and program advisors.

* The GACE Program Admission Assessment tests are comprehensive exams covering reading, writing, and mathematics. Regardless of matriculation date, the GACE Program Admission Assessments are a requirement for entrance into the Teacher Education Program at Kennesaw State University. Candidates should plan to take the tests prior to applying to the Teacher Education Program. Students with the following minimum scores on Collegiate SAT, ACT or GRE examinations may exempt GACE Program Admission Assessment by submitting proof of scores to the Certification Officer at teapp@kennesaw.edu.

- SAT: at least 1000 "Critical Reading" + "Math" on tests before March 1, 2016 *OR* 1000 "Evidence-based Reading and Writing" + "Math" March 1, 2016 -June 30, 2019 *OR* 1080 "Evidence-based Reading and Writing" + "Math" July 1, 2019 & after
- ACT: at least 43 "English" + "Math"
- GRE: at least 1030 (Verbal and Quantitative) *OR* 297 (Verbal and Quantitative) 08/01/2011 and after

Applicants will be reviewed by the Admission and Academic Standing Committee of the applicant's proposed degree program. All candidates who have met the requirements outlined above will be considered for admission. Only candidates who have achieved an adjusted GPA of 3.0 or higher will be guaranteed a place in their teacher education program of choice.

Candidates will be informed of their admission status by email to their Kennesaw State University Student email account. Notification dates will vary depending upon many variables. Candidates must enroll in the semester for which they have been admitted, or their admission is nullified, and they must re-apply and meet the admission requirements for a subsequent semester. KSU will request that teacher education candidates be issued a Pre-Service Certificate by the Georgia Professional Standards Commission (PSC).

To be eligible for the Pre-Service Certificate, candidates must:

- Submit a complete PSC Pre-Service Certification application packet.
- Be enrolled in an educator preparation program leading to initial certification.
- Have a successful background check (conducted as part of the application process). The GaPSC will NOT award a Pre-Service Certificate to anyone who is currently on probation, regardless of the crime. The GaPSC requires a copy of the Final Disposition, signed by a judge, in order to consider the issuance of a Pre-Service Certificate.
- Pass or exempt GACE Program Admission Assessments.
- Pass Georgia Educator Ethics Exam (test code 360).
- Verify enrollment in a KSU educator preparation program through personal MyPSC account.
- A Pre-Service Certificate is required to participate in field experiences associated with courses required in teacher education programs.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. Graduation from a teacher education program requires that you at least attempt the GACE Content exams associated with your degree field. Passing scores are required for certification by the PSC. All upper level coursework requires a grade of "C" or better and there must be a successful completion of all field experiences.

Accreditation

The B.S. with a major in History Education is fully accredited by the National Council for Accreditation of Teacher Education (NCATE), is fully approved by Georgia's Professional Standards Commission for teacher certification, and is nationally recognized by the National Council for the Social Studies (NCSS).

Program of Study

General Education (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning
- GEOG 1130:World Regional Geography
- HIST 2111:United States History to 1877
- HIST 1112:Modern World History
- HIST 2206:Origins of Great Traditions

Teaching Field Requirements (33 Credit Hours)

Required Courses (18 Credit Hours)

- ECON 2106:Principles of Microeconomics
- GEOG 3340:Cultural Geography
- HIST 3100:Historical Methods
- HIST 3304:History of Georgia
- HIST 4488:Approaches to World History
- POLS 3300:U.S. Constitution and Courts

Upper Division History Electives (15 Credit Hours)

Courses to be chosen with advisor. One of these history courses must be a research seminar (HIST 4495, HIST 4496, HIST 4497, or HIST 4498).

American History (6 Credit Hours)

Choose two:

- HIST 3310:The Old South
- HIST 3311:The New South
- HIST 3331:History of Religion in the U.S.
- HIST 3333:African American History to 1865
- HIST 3335:African American History, 1865 to Present
- HIST 3340:U.S. Military Experience
- HIST 3341:Women in U.S. History and Culture
- HIST 4204:The History of the American West
- HIST 4255:Diplomatic History of the United States
- HIST 4251:U.S. Social and Cultural History
- HIST 4245:Business & Economic History of United States
- HIST 4410:Colonial America to 1763
- HIST 4411:The American Revolution
- HIST 4412:The Early Republic
- HIST 4415:Jacksonian America
- HIST 4451:Civil War and Reconstruction
- HIST 4461:Gilded Age & Progressive Era
- HIST 4163:The United States between the World Wars
- HIST 4471:Recent United States History
- HIST 4490:Special Topics in History (as appropriate)
- HIST 4495:Research Seminar in US History

European History (3 Credit Hours)

Choose one:

- HIST 3350:England to 1688
- HIST 3351:Modern England
- HIST 3361:Themes in Slavic and Eastern European Studies
- HIST 3371:Modern Europe
- HIST 3377:History of Science
- HIST 4428:The Third Reich
- HIST 4440:Medieval Europe
- HIST 4441:The Holy Roman Empire
- HIST 4442:History of Religious Tolerance
- HIST 4445:Age of Enlightenment
- HIST 4453:World War I
- HIST 4454:Twentieth Century Europe
- HIST 4456:World War II
- HIST 4496:Research Seminar in European History
- HIST 4501:Ancient Greece
- HIST 4502:Ancient Rome

- HIST 4503:Twilight of Antiquity
- HIST 4544:Renaissance Europe
- HIST 4545:Reformation Europe
- HIST 4555:Topics in European Culture
- HIST 4558:The Holocaust
- HIST 4633:Modern German History
- HIST 4640:Modern Ireland
- HIST 4654:Russia to 1861
- HIST 4655:Russia Since 1861
- HIST 4490:Special Topics in History (as appropriate)

Non-Western World Studies (6 Credit Hours)

Choose two:

- HIST 3305:The World Since 1945
- HIST 3334:The Africans in the Diaspora
- HIST 3357:Africans in Asia
- HIST 3358:Africans in Latin America and the Caribbean
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- HIST 3372:Ancient to Pre-Modern China
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- HIST 3375:Silk Road
- HIST 3379:Central Asia in World History
- HIST 3380:Premodern Japan
- HIST 3381:Modern Japan
- HIST 3382:North Africa and Middle East in Modern Times
- HIST 3391:History of West Africa
- HIST 3392:History of Southern, Eastern and Central Africa
- HIST 4373:Modern India and South Asia
- HIST 4374:History of Ancient and Medieval India
- HIST 4375:Themes in Asian History
- HIST 4391:Emerging Themes in African History
- HIST 4497:Research Seminar in non-Western History
- HIST 4498:Research Seminar in World History
- HIST 4760:The Age of Imperialism
- HIST 4765:History of Terrorism
- HIST 4905:History of the Atlantic World
- HIST 4490:Special Topics in History (as appropriate)

Professional Education (6-12) Requirements (27 Credit Hours)

Must be admitted to Teacher Education and History Education before taking these courses.

- EDUC 2130:Exploring Teaching and Learning
- HIST 3271:Introduction to History Education
- HIED 4550:Methods of History Education
- HIED 4650:Yearlong Clinical Experience I
- HIED 4660:Yearlong Clinical Experience II
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- INED 3300:Educating Students with Exceptionalities in Inclusive Settings
- INED 4431:Foundations for Teaching Diverse English Learners

Program Total (120) Credit Hours)

History, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/programs/bah.php>

Phone: 470-578-6294

Email: histphildept@kennesaw.edu

Program Description

The program of study in history offers a Bachelor of Arts degree. All majors complete several "major requirements" which provide needed background in research and writing, in the theory of the discipline, and in the various fields of history. Students must also complete a capstone experience including two research seminars. Students needing a writing sample or other credential for career advancement or graduate study can complete a Senior Thesis. A degree in history is useful to students interested in careers involving critical thinking, research and oral and written communication. It serves as a prerequisite for graduate study in a number of fields, including history and many other social science disciplines, education, law, and theology. A degree in history prepares students for careers in government, the international arena, law, theology, business, non-profit work, as well as for graduate study.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- HIST 1111:Pre-Modern World History
or
- HIST 1112:Modern World History
- HIST 2111:United States History to 1877
or
- HIST 2112:United States History Since 1877
- FL 1002:Introduction to Foreign Language and Culture II
- FL 2001:Intermediate Foreign Language and Culture I
Must take 2 of the following 3.
- GEOG 1130:World Regional Geography
- HIST 2206:Origins of Great Traditions
- PHIL 2010:Introduction to Philosophy

Major Requirements (30 Credit Hours)

Required Courses (12 Credit Hours)

All students must complete the following courses:

- HIST 3100:Historical Methods
- FL 2002:Intermediate Foreign Language and Culture II
- Any two Research Seminars:
 - HIST 4495:Research Seminar in US History
 - HIST 4496:Research Seminar in European History
 - HIST 4497:Research Seminar in non-Western History
 - HIST 4498:Research Seminar in World History
- OR
- One Research Seminar from List Above
- AND
- HIST 4499:Senior Thesis in History

Non-Western History Courses (6 Credit Hours)

Select two courses from the following:

- HIST 3305:The World Since 1945
- HIST 3334:The Africans in the Diaspora
- HIST 3357:Africans in Asia
- HIST 3358:Africans in Latin America and the Caribbean
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- HIST 3372:Ancient to Pre-Modern China
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- HIST 3375:Silk Road
- HIST 3379:Central Asia in World History
- HIST 3380:Premodern Japan
- HIST 3381:Modern Japan
- HIST 3382:North Africa and Middle East in Modern Times
- HIST 3391:History of West Africa
- HIST 3392:History of Southern, Eastern and Central Africa
- HIST 4905:History of the Atlantic World
- HIST 4373:Modern India and South Asia
- HIST 4374:History of Ancient and Medieval India
- HIST 4375:Themes in Asian History
- HIST 4391:Emerging Themes in African History
- HIST 4453:World War I
- HIST 4456:World War II
- HIST 4760:The Age of Imperialism
- HIST 4765:History of Terrorism
- HIST 4490:Special Topics in History (as appropriate)

U.S. History Courses (6 Credit Hours)

Select two courses from the following:

- HIST 3304:History of Georgia
- HIST 3310:The Old South
- HIST 3311:The New South
- HIST 3331:History of Religion in the U.S.
- HIST 3333:African American History to 1865
- HIST 3335:African American History, 1865 to Present
- HIST 3340:U.S. Military Experience
- HIST 3341:Women in U.S. History and Culture
- HIST 4163:The United States between the World Wars
- HIST 4204:The History of the American West
- HIST 4245:Business & Economic History of United States

- HIST 4251:U.S. Social and Cultural History
- HIST 4255:Diplomatic History of the United States
- HIST 4410:Colonial America to 1763
- HIST 4411:The American Revolution
- HIST 4412:The Early Republic
- HIST 4415:Jacksonian America
- HIST 4451:Civil War and Reconstruction
- HIST 4461:Gilded Age & Progressive Era
- HIST 4471:Recent United States History
- HIST 4490:Special Topics in History (as appropriate)

European History Courses (6 Credit Hours)

Select two courses from the following:

- HIST 3350:England to 1688
- HIST 3351:Modern England
- HIST 3361:Themes in Slavic and Eastern European Studies
- HIST 4428:The Third Reich
- HIST 4440:Medieval Europe
- HIST 4441:The Holy Roman Empire
- HIST 4442:History of Religious Tolerance
- HIST 4445:Age of Enlightenment
- HIST 4454:Twentieth Century Europe
- HIST 4501:Ancient Greece
- HIST 4502:Ancient Rome
- HIST 4503:Twilight of Antiquity
- HIST 4544:Renaissance Europe
- HIST 4545:Reformation Europe
- HIST 4555:Topics in European Culture
- HIST 4558:The Holocaust
- HIST 4633:Modern German History
- HIST 4640:Modern Ireland
- HIST 4654:Russia to 1861
- HIST 4655:Russia Since 1861
- HIST 4490:Special Topics in History (as appropriate)

Upper Division Electives (3 Credit Hours)

Select any course from the following:

- HIST 3325:Introduction to Public History
- HIST 3326:Historic Preservation
- HIST 3327:Architectural History
- HIST 3328:Introduction to Archives and Records Management
- HIST 3376:Historiographical Debates

- HIST 3377:History of Science
- HIST 3378:History of Technology
- HIST 4425:Oral History
- HIST 4426:Documentation and Interpretation of Historic Sites
- HIST 4427:Museum Exhibitions
- HIST 4430:Museum Studies
- HIST 4435:History and Memory
- HIST 4911:Themes in American Environmental History
- HIST 3396:Cooperative Study
- HIST 3398:Internship
- HIST 4400:Directed Study
- HIST 4490:Special Topics in History

Minor, Certificate or Related Studies (18 Credit Hours)

Students may choose to pursue a minor or a certificate. Please see academic advisor for available minors. Students are encouraged to enroll in an internship or study abroad experience. Students may also enroll in any 3000 or 4000 level course from the following approved courses and prefixes.

Approved Related Studies

Free Electives (9 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Integrative Studies, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/programs/ints/>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Bachelor of Science with a major in Integrative Studies allows students the flexibility to design a curriculum that integrates two or more areas of study reflecting their academic and professional goals. Working in collaboration with advisers, faculty, and relevant departments to develop a plan of study, this interdisciplinary degree prepares students for a variety of professional careers or graduate school. Students acquire relevant disciplinary knowledge and learn approaches to integrating disciplinary perspectives in order to more effectively address contemporary political, social, scientific, and humanitarian questions.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42-45 Credit Hours)
See listing of requirements.

Integrative Studies Tracks:

Specialized Studies Track

A 2.5 AGPA is required for entry into this track.

*Lower Division Major Requirements (Area F) (18 Credit Hours)

Must be completed with a grade of "C" or better.

- INTS 1198:Introduction to Integrative Studies
 - INTS 2298:Integrative Studies Research Methods
- Plus 12 hours of lower level coursework (these vary depending on academic areas selected)

*Major Requirements (39 Credit Hours)

Must be completed with a grade of "C" or better. 12 credit hours from two chosen upper-level academic areas. 12 credit hours of upper-level coursework approved by the INTS Director reflecting integration and application of upper-level academic skills.

- INTS 4498:Senior Seminar in Integrative Studies

*Related studies (9 Credit Hours)

Varies depending on academic areas.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120-123 Credit Hours)

Note: * These areas are to be planned closely with an Integrative Studies advisor and must follow requirements made, if any, by the academic areas selected for the degree. Any changes to an approved/signed INTS proposal must be re-evaluated and approved by an INTS advisor.

Environmental Policy Studies Track

A 2.5 AGPA is required for entry into this track.

***Lower Division Major Requirements (Area F) (18 Credit Hours)**

Must be completed with a grade of "C" or better.

- INTS 1198:Introduction to Integrative Studies
 - INTS 2298:Integrative Studies Research Methods
- Plus 12 hours of lower level coursework (courses may vary).

***Major Requirements (51 Credit Hours)**

Must be completed with a grade of "C" or better. 12 credit hours each from three academic areas (36 credit hours) 12 credit hours of coursework approved by the INTS Director reflecting integration and application of upper-level academic skills.

- INTS 4498:Senior Seminar in Integrative Studies

Free Electives (9 Credit Hours)

Any courses in the university curriculum.

Program Total (120-123 Credit Hours)

Note: * These areas are to be planned closely with an INTS advisor and must follow requirements made, if any, by the academic areas selected for the degree. Any changes to an approved/signed INTS proposal must be re-evaluated and approved by an INTS advisor.

General Studies Track

A 2.0 AGPA is required for entry into this track.

***Lower Division Major Requirements (Area F) (18 Credit Hours) (See Note 1)**

Must be completed with a grade of "C" or better. Varies depending on interest areas but must include:

- INTS 1198:Introduction to Integrative Studies ²
- ICT 2101:Information and Communications Technology or an advisor approved lower-level course ³
- COM 2129:Public Speaking
or
- COM 1100:Human Communication
*or any lower-level COM, TCOM or foreign language course ⁴
- Any lower-level LDRS course ⁵
- 6 Hours of lower-level coursework approved by the INTS Program Coordinator (These vary depending on academic areas selected.)

***Major Requirements (39 Credit Hours)**

Must be completed with a grade of "C" or better. Varies depending on interest areas, but must include:

- WRIT 3140:Writing in the Workplace
*or an advisor approved alternative course ⁶
- INTS 4498:Senior Seminar in Integrative Studies
- Plus 15 credit hours in one or a cluster of two academic area, and
- 18 credit hours of upper-level coursework reflecting integration and application of upper-level academic skills

Free Electives (21 Credit Hours)

Any courses in the university curriculum.

Program Total (120-123 Credit Hours)

Notes:

1. Course selections will be planned with the assistance of an INTS advisor. Any changes to an approved/signed INTS proposal must be re-evaluated and approved by an INTS advisor. Substitutions to any course can be made at the discretion of the LIS Department Chairperson or the INTS Director.
2. This course can be waived and replaced with any lower-level course if the student has earned 90 hours at the end of the term he or she enters the major.
3. Advisor approved lower-level courses include any ACST, ASTR, BIOL, CHEM, CPE, CGDD, CS, CSE, CSIS, CYBR, DWMA, ECET, EE, ENGR, EDG, ENVS, GEOG, GEOL, ISA, IS, IT, WBIT, ITEC, ISCI, IAD, STS, MATH, MTRE, PHYS, SCI, SWE, STAT, and ISYE or PHIL 2500.
4. This course can be waived and replaced with any lower-level course if the student has credit for an upper-level COM/ORGC/PR or foreign language course or if a COM or foreign language course is used in General Education. Foreign language courses are any CHNS, FL, HEBR, FREN, GRMN, ITAL, JPN, KOR, LATN, PORT, RUSS, or SPAN.

5. This course can be waived and replaced with any lower-level course if the student has credit for an upper-level LDRS course or HS 2200, MGT 3100, MGT 3190, MGT 4001, MGT 4002, MGT 4003, MGT 4004, MGT 4123, MGT 4124, MGT 4130, MGT 4161, MGT 4171, MGT 4172, ORGC 3459 or ORGC 4440 or if LDRS 2300 is used in General Education.
6. Advisor approved alternative courses include COM 3315, PR 3429, ORGC 3376, ENGL 3230, ENGL 3232, ENGL 3320, ENGL 3322, ENGL 3324, ENGL 3330, ENGL 3340, ENGL 3350, ENGL 3360, ENGL 3390, ENGL 3400, ENGL 3500, ENGL 3600, ENGL 4340, ENGL 4401, ENGL 4490, LING 3025, LING 3030, LING 3045, LING 3050, LING 3055, WRIT 3000, WRIT 3100, WRIT 3109, WRIT 3110, WRIT 3111, WRIT 3120, WRIT 3130, WRIT 3150, WRIT 3160, WRIT 3170 or an upper-level TCOM course. This course may be waived and replaced with any upper-level course if the student has credit for a lower-level TCOM course.
7. Hours from ICT 2101, COM 2129, COM 1100, LDRS 2000, and/or WRIT 3140 with a grade of D can be used in Free Electives on the INTS plan if replaced by a substitution.

Interactive Design, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/tcid/programs/bsid.php>

Phone: (470) 578-7202

Email: tcid@kennesaw.edu

Program Description

The Bachelor of Science with a major in Interactive Design provides students with an interdisciplinary, hands-on approach to developing the technical, theoretical, and creative skills needed to serve in the field of interactive design as interaction designers, user interface designers, and information visualization designers. This approach to design merges technical knowledge and aesthetic creativity with an ultimate focus on the human needs of end users. Students will combine practical prototyping skills with theoretical and technical approaches to front-end digital design and culture. The emphasis here is on creating well-rounded designers who are suited to meet the growing marketplace need for interactive design.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section for the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ART 1100:Two-Dimensional Design and Color Theory
- ART 1150:Drawing I
- IAD 2100:History and Fundamentals
- ICT 2101:Information and Communications Technology
- TCID 2002:Productivity Tools and Technologies
- TCID 2170:Introduction to Digital Media and Culture

Major Requirements (36 Credit Hours)

Required Courses (18 credit hours)

- IAD 3000:Interaction Design I
- IAD 3150:Visual Design I
- IAD 3230:User Interface Design I
- TCID 3100:Professional Development
- TCID 3400:Front-End Development I
- TCID 4700:Capstone Project and Portfolio Showcase

Major Electives (18 Credit Hours)

Choose six of the following for a total of 18 credit hours:

- IAD 3300:Ethnography for Designers
- IAD 3398:Internship
- IAD 4000:Interaction Design II
- IAD 4150:Visual Design II
- IAD 4230:User Interface Design II
- IAD 4400:Directed Study
- IAD 4490:Special Topics in Interactive Design
- TCID 3800:Front-End Development II
- TCID 4500:Front-End Development III

Upper-Division Electives (12 credit hours)

Select 12 hours of upper division course work (3000 - 4000 level) inside or outside of the Interactive Design Major passing with a C or better. These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Completion of a Formal Minor or Certificate Program would also satisfy this requirement.

Free Electives (12 credit hours)

Select 12 hours of courses in the university curriculum. This includes any course (1000 - 4000) in the university curriculum (including Interactive Design) passing with a D or better.

Program Total (120 Credit Hours)

International Affairs, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/sgia/>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Program Description

The program of study in International Affairs leads to a Bachelor of Arts degree. The degree plays an integral role in the School of Government and International Affairs. In this interdisciplinary major, the student must complete four required upper division major courses followed by six courses of upper division major electives. This is followed by five classes of interdisciplinary Related Studies. It is within this area that we encourage students to complete a certificate or minor or to participate in a coop/internship program or study abroad. This degree prepares graduates for careers in business, nonprofit organizations, law, or government service.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. In addition, all IA Majors are required to take the International Affairs Exit Exam immediately before they petition to graduate.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

FL 1002, FL 2001, and FL 2002 must all be taken in the same foreign language

- FL 1002:Introduction to Foreign Language and Culture II
- FL 2001:Intermediate Foreign Language and Culture I
- POLS 2238:Introduction to International Political Economy
- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations
- POLS 2280:Research Methods

Lower Division Career Program (6 Credit Hours)

- POLS 2230:Careers in International Affairs
- FL 2002:Intermediate Foreign Language and Culture II

Upper Division Major Requirements (33 Credit Hours)

Upper Division Major Core (12 Credit Hours)

Students must complete four courses from the following list:

- POLS 3350:American Foreign Policy
- POLS 4430:International Law and Organization
- POLS 4436:Politics of Developing Areas
- POLS 4437:Global Security
- POLS 4440:Comparative Democratization

Upper Division Regional and Thematic Requirements (21 Credit Hours)

Students must take seven courses (21 credit hours) from the following list. An International Affairs Major who takes POLS 4490 should seek adviser approval prior to enrolling.

- POLS 3850:Introduction to Nongovernmental Organizations and Development
- POLS 4100:Directed Applied Research
- POLS 4202:Politics of the U.S. Intelligence Community
- POLS 4431:Politics of International Terrorism
- POLS 4433:European Union Politics
- POLS 4439:Political Economy of Russia and Central Asia in Transition
- POLS 4448:Russian Politics and Culture
- POLS 4449:Russian Foreign Policy
- POLS 4452:Politics of East Asia
- POLS 4453:Latin America: Democracy and Development
- POLS 4454:Politics of the Middle East
- POLS 4455:International Relations of Africa
- POLS 4456:International Environmental Policy
- POLS 4457:South Asian Politics: A Comparative Perspective
- POLS 4460:Politics of NATO
- POLS 4490:Special Topics in Political Science

Related Studies (12 Credit Hours)

Students are encouraged to complete a minor and/or certificate (these credits may count toward both Related Studies and the minor/certificate). Students are also encouraged to pursue internships in order to gain career experience within the field of International Affairs. Students should work closely with their academic adviser and the SGIA internship coordinator in order to receive academic credit for their internships. Notes: 1) Students may substitute upper-division courses from other disciplines with adviser approval, 2) Student may also complete an "Applied Global Experience" of ten weeks or more in order to receive 15 credit hours in this category. Full-time status will be based upon the criteria set by host institution. Courses must be pre-approved by your International Affairs adviser and by the SGIA school director prior to departure. Students may choose from any of the following courses: Any 3000 - 4000 level course with the Prefix: ANTH, ASIA, BLAW, CRJU, ECON, EURO, FL (all Foreign Languages), GEOG, HIST, MGT, MKTG, PAX, POLS, PSYC, SOCI 3000 - 4000 and

- NURS 4423:International Health Policy

Free Electives (9 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Embedded Certificates

Upon completion of the degree requirements and selection of specific courses in either sub-fields, Upper-Division Major Electives, or Related Studies students may earn the following certificates. Students, please consult with your academic advisor regarding declaration of a certificate.

- International Law Certificate- Embedded
- Intelligence and Homeland Security Certificate-Embedded

Journalism and Emerging Media, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/socm/programs/bsjem.php>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

Whether you are navigating the media-rich culture as a critical thinker, learning to write and produce news and feature stories as a journalist or are gaining hands-on experience in digital video and audio as a social media expert, Kennesaw State's Journalism and Emerging Media degree offers endless possibilities.

Learn the latest industry trends from faculty members who are award-winning professionals, including reporters, editors and international correspondents at the Associated Press, the Atlanta Journal-Constitution, CNN, NPR, commercial radio stations and various newspapers.

The Journalism and Emerging Media major offers a professionally-focused, marketplace-relevant, and theoretically-rigorous program. It includes courses in news writing, media law, digital media production, sports reporting, investigative reporting, and community-based capstone experience. It encourages students to enroll in a for-credit internship.

Admission Requirements

Admission to the Journalism and Emerging Media program is separate from admission to Kennesaw State University. Students must meet the admission requirements to pursue this degree program, outlined below.

- All communication and media majors must earn a grade of 'C' or better in all communication and media courses counted toward their degree and pass the Communication Entrance Exam with a score of 78% or higher. Students who fail to pass the grammar test in three attempts must pursue majors in other departments.
- Meet the School of Communication & Media (SOCM) Sophomore GPA requirement. This Sophomore GPA requirement consists of combined adjusted 2.75 GPA in the following five courses:
 - COM 2020
 - COM 2033
 - COM 2129
 - COM 2135
 - COM 2240
- Achieve a satisfactory score of 78% or higher on the SOCM Entrance Exams. Students may take the test no more than three times. ***This Entrance Exam requirement will be waived for students in this catalog year.***

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- COM 2020:CSI: Communication Sources and Investigations
- COM 2129:Public Speaking
- COM 2033:Visual Communication
- COM 2135:Writing for Public Communication
- COM 2230:Introduction to Mass Communication
- COM 2240:Communication Law, Ethics and Diversity

Major Requirements: (21 Credit Hours)

- COM 3340:Digital Media Production
- JOUR 3330:News Reporting and Writing
- JOUR 3700:Fundamentals of Online Journalism
- JOUR 3900:Journalism History
- JOUR 4100:Data Journalism
- JOUR 4470:Media Law
- JOUR 4488:Multi-Media Visions of Community (Capstone)

Upper Division Major Electives (9 Credit Hours)

Select three of the following:

- MENT 3300:Entertainment Podcasting
- JOUR 3360:Photojournalism
- JOUR 3820:Video for the Web
- JOUR 4300:Topics in Journalism
- JOUR 4410:Investigative Reporting
- JOUR 4412:Sports Reporting
- JOUR 4420:Advanced Media Writing
- JOUR 4445:Advanced Digital Audio Production
- JOUR 4450:Video News Production

Advanced Journalism Professional Practice: (3 Credit Hours)

Select one of the following:

- JOUR 3395:Journalism Study Tour
- COM 3398:Internship in Communication
- PR 4605:Magazine Media

Upper Division SCOM Electives (3 Credit Hours)

Students may choose from any 3000-4000 level COM, JOUR, MENT, PR or ORGC course not previously taken. The list below provides recommended electives for Journalism and Emerging Media majors. Please take into account any prerequisites required.

- COM 3315:Interviewing
- COM 3320:Health Communication

- COM 3350:Editing for Today's Media
- COM 3398:Internship in Communication
- COM 4400:Directed Study
- COM 4490:Special Topics in Communication
- JOUR 3310:Concepts in New Media
- JOUR 3360:Photojournalism
- JOUR 3820:Video for the Web
- JOUR 4300:Topics in Journalism
- JOUR 4410:Investigative Reporting
- JOUR 4412:Sports Reporting
- JOUR 4420:Advanced Media Writing
- JOUR 4430:Advanced Investigative Reporting I
- JOUR 4435:Advanced Investigative Reporting II
- JOUR 4445:Advanced Digital Audio Production
- JOUR 4450:Video News Production
- PR 3335:Public Relations Principles
- PR 3355:Public Relations Cases
- PR 3375:Public Relations Writing
- PR 3429:Persuasion Methods and Strategies
- PR 4405:Digital Publication Design
- PR 4605:Magazine Media
- PR 4210:Social Media for Strategic Communication
- MENT 3100:Fundamentals of Media & Entertainment
- MENT 3300:Entertainment Podcasting
- MENT 3326:International Media
- MENT 4425:Gender, Race and Media
- MENT 4430:Media Management
- MENT 4436:Topics in Entertainment
- MENT 4444:Film and Video Structure and Process
- MENT 4464:Documentary Filmmaking
- MENT 4424:Uses and Effects of Mass Media
- ORGC 3345:Team Communication
- ORGC 3459:Communication and Conflict
- ORGC 4470:Topics in Organizational & Professional Communication

Related Studies (12 Credit Hours)

Upper division course work (3000-4000 level) outside of the School of Communication & Media (SOCM). These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Students should determine needed prerequisites. Completion of Formal Minor or Certificate Program would also satisfy the Related Studies requirement.

Free Electives (12 Credit Hours)

Any course (1000-4000 level) in the university curriculum. Students must earn a grade of D or better.

Program Total: (120 Credit Hours)

Media and Entertainment, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/socm/programs/bsmes.php>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

The Media and Entertainment major at Kennesaw State University invites students to explore the critical ways in which communication and converged media connect with and affect our lives, society, and culture. The theoretically-based program focuses on the forms and effects of media, including radio, film, television, print, and electronic media, and requires that students demonstrate basic digital media production skills.

Our students are critically engaged with creative analysis, production, and research into traditional and emerging forms of media. The curriculum emphasizes media history, media institutions, theory and research, production, ethics, policy, management, and technology and their effects on contemporary life. In addition to producing digital media, students learn to analyze and synthesize important information about media's role both within American society and globally, the formal attributes of a variety of media genres, media as a site of gender and racial identity formation and reflection, and the technological and cultural impacts of digital media. Media and Entertainment Studies majors learn to read and write effectively and look at the world with a critical eye.

Students who graduate with the BS with a major in Media and Entertainment will be ready for careers as media professionals within communication-based industries (i.e., media writing, media production, media editing, media sales, media buyer, media research, public affairs, publishing, public information officer, community outreach, political advocacy, and ministry), government, education, law and policy, management, and/or non-profit organizations. This program also lays the groundwork for further graduate study of mass communication, thus opening the door for employment as instructors in higher education.

The major requires 18 credit hours of lower-division course work (1000-2000 level) comprising various offerings that serve as important groundwork leading to advanced studies. Lower-division offerings include basic courses in communication research, visual communication, public speaking, writing, law and ethics, and an introductory course relevant to the student's selected program of study.

Admission Requirements

Admission to the Media and Entertainment program is separate from admission to Kennesaw State University. Students must meet the admission requirements to pursue this degree program, outlined below.

- All communication and media majors must earn a grade of 'C' or better in all communication and media courses counted toward their degree and pass the Communication Entrance Exam with a score of 78% or higher. Students who fail to pass the grammar test in three attempts must pursue majors in other departments.
- Meet the School of Communication & Media (SOCM) Sophomore GPA requirement. This Sophomore GPA requirement consists of combined adjusted 2.75 GPA in the following five courses:
 - COM 2020
 - COM 2033
 - COM 2129
 - COM 2135
 - COM 2240
- Achieve a satisfactory score of 78% or higher on the SOCM Entrance Exams. Students may take the test no more than three times. ***This Entrance Exam requirement will be waived for students in this catalog year***

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- COM 2020:CSI: Communication Sources and Investigations
- COM 2033:Visual Communication
- COM 2129:Public Speaking
- COM 2135:Writing for Public Communication
- COM 2230:Introduction to Mass Communication

- COM 2240:Communication Law, Ethics and Diversity

Major Requirements (33 Credit Hours)

Major Required Courses (15 Credit Hours)

- MENT 3100:Fundamentals of Media & Entertainment
- MENT 4424:Uses and Effects of Mass Media
- MENT 4485:Media & Entertainment Capstone
- COM 3340:Digital Media Production
- COM 3435:Communication Research Methods

Technology Competency (3 Credit Hours)

Select one of the following:

- MENT 3300:Entertainment Podcasting
- MENT 4454:moMENTum productions
- MENT 4464:Documentary Filmmaking

Writing Competency (3 Credit Hours)

Select one of the following:

- MENT 3200:Writing for Entertainment Media
- FILM 3105:Introduction to Screenwriting
- FILM 3125:Introduction to TV Writing
- WRIT 3150:Topics in Digital Rhetoric
- WRIT 3151:Digital Storytelling
- WRIT 3152:Digital Community Engagement

Media Literacy Competency (6 Credit Hours)

Select two courses from the following:

- MENT 3326:International Media
- MENT 4425:Gender, Race and Media
- MENT 4430:Media Management
- MENT 4434:Topics in Media
- MENT 4444:Film and Video Structure and Process
- COM 3398:Internship in Communication
Internship limited to 3 credit hours in this competency area.

Entertainment Competency (6 Credit Hours)

Select two courses from the following:

- MENT 3300:Entertainment Podcasting

- MENT 4436:Topics in Entertainment
- MENT 4444:Film and Video Structure and Process
- MENT 4454:moMENTum productions
- MENT 4464:Documentary Filmmaking
- MENT 4495:Media and Entertainment Study Tour
- MEBU 3100:Fundamentals of the Music and Entertainment Business

Upper Division SOCM Elective (3 Credit Hours)

Students may choose one 3000- or 4000-level course from COM, JOUR, MENT, ORGC, or PR. The courses listed below are recommended for MENT majors.

- MENT 3200:Writing for Entertainment Media
- MENT 3300:Entertainment Podcasting
- COM 3315:Interviewing
- COM 3320:Health Communication
- MENT 3326:International Media
- COM 3350:Editing for Today's Media
- JOUR 3360:Photojournalism
- MEBU 3370:Fundamentals of Audio Production and Technology
- COM 3398:Internship in Communication
Internship limited to 3 credit hours in Upper Division SOCM Electives
- COM 4100:Directed Applied Research
- MEBU 4100:Emerging Trends of the Music and Entertainment Business
- MEBU 4200:Current Topics in the Music and Entertainment Business
- COM 4400:Directed Study
- PR 4405:Digital Publication Design
- MENT 4425:Gender, Race and Media
- MENT 4430:Media Management
- MENT 4434:Topics in Media
- MENT 4436:Topics in Entertainment
- MENT 4444:Film and Video Structure and Process
- MENT 4454:moMENTum productions
- JOUR 4445:Advanced Digital Audio Production
- MENT 4464:Documentary Filmmaking
- MEBU 4470:Advanced Audio Production and Technology
- COM 4490:Special Topics in Communication
- MEBU 4490:Special Topics in the Music and Entertainment Business
- MENT 4495:Media and Entertainment Study Tour

Related Studies (12 Credit Hours)

Select 12 hours of upper division coursework (3000-4000 level) outside of the School of Communication & Media (SOCM). These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Students should determine needed prerequisites.

Completion of Formal Minor or Certificate Program would also satisfy the Related Studies requirement.

Recommended courses/minors/certificates include: Interdisciplinary Music and Entertainment Business Certificate /Music and Entertainment Business Minor program; Film Studies Minor; FILM 4105; FILM 4125; 3000- & 4000- level GFA Courses; AMST 3740; ANTH 3521; POLS 3380; WRIT 3150; WRIT 3151; & WRIT 3152

Free Electives (12 Credit Hours)

Any courses (1000-4000) in the university curriculum.

Program Total (120 Credit Hours)

Modern Language and Culture, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

Speaking a second language and understanding other cultures are of strategic importance in a world in which international collaboration is not only necessary for political survival, but also indispensable for economic success. The B.A. with a major in Modern Language and Culture prepares graduates who are able to communicate effectively in one or more foreign languages and have a keen understanding of how humans interact across world cultures. Graduates will be familiar with current global issues and possess the knowledge, skills, and versatility needed to succeed academically and professionally in an ever-changing society.

The B.A. with a major in Modern Language and Culture is designed to develop students' communication skills and understanding of other cultures and to foster respect for difference and diversity in a global society. Students choose one of five primary languages - Chinese, French, German, Italian, or Spanish - in which they develop and refine language proficiency as well as cross-cultural competence. In the course of their studies, Modern Language and Culture majors acquire and practice the communication skills and cultural competence necessary to function effectively in a global society. The curriculum prepares degree candidates for future academic programs and professional careers in which foreign language proficiency and cultural knowledge are desirable or required or both.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog. In addition, all Modern Language and Culture majors must take an official Oral Proficiency Interview (OPI). In addition, majors choosing the "Teacher Certification in a Foreign Language" concentration must receive a minimum rating of "Advanced Low" to graduate and to receive a recommendation for certification. For information about the OPI, see <http://www.actfl.org>.

Accreditation

The B.A. with a major in Modern Language and Culture is fully accredited by NCATE (National Council for Accreditation of Teacher Education) and nationally recognized by ACTFL (American Council on the Teaching of Foreign Languages).

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Select a primary language: Chinese, French, German, Italian, or Spanish.

- CHIN 2001:Intermediate Chinese Language and Culture I
or
- FREN 2001:Intermediate French Language and Culture I
or
- GRMN 2001:Intermediate German Language and Culture I
or
- ITAL 2001:Intermediate Italian Language and Culture I
or
- SPAN 2001:Intermediate Spanish Language and Culture I

- CHIN 2002:Intermediate Chinese Language and Culture II
or
- FREN 2002:Intermediate French Language and Culture II
or
- GRMN 2002:Intermediate German Language and Culture II
or
- ITAL 2002:Intermediate Italian Language and Culture II
or
- SPAN 2002:Intermediate Spanish Language and Culture II

- FL 2209:World Languages and Cultures

Select three courses from one of the following concentrations:

Second Language and Culture

(the language chosen must be different from the primary language)

- CHIN 1002:Introduction to Chinese Language and Culture II
or
- FREN 1002:Introduction to French Language and Culture II
or
- GRMN 1002:Introduction to German Language and Culture II
or
- ITAL 1002:Introduction to Italian Language and Culture II
or
- PORT 1002:Introduction to Portuguese Language and Lusophone Cultures II
or
- SPAN 1002:Introduction to Spanish Language and Culture II
(or higher)

- CHIN 2001:Intermediate Chinese Language and Culture I
or
- FREN 2001:Intermediate French Language and Culture I
or
- GRMN 2001:Intermediate German Language and Culture I
or
- ITAL 2001:Intermediate Italian Language and Culture I
or
- PORT 2001:Intermediate Portuguese Language and Lusophone Cultures I
or
- SPAN 2001:Intermediate Spanish Language and Culture I

- CHIN 2002:Intermediate Chinese Language and Culture II
or
- FREN 2002:Intermediate French Language and Culture II
or
- GRMN 2002:Intermediate German Language and Culture II
or
- ITAL 2002:Intermediate Italian Language and Culture II
or
- PORT 2002:Intermediate Portuguese Language and Lusophone Cultures II
or
- SPAN 2002:Intermediate Spanish Language and Culture II (or higher)

Teacher Certification in Foreign Language

- FL 1001:Introduction to Foreign Language and Culture I * (or higher)

- or
- CHIN 1001:Introduction to Chinese Language and Culture I *(or higher)
- or
- FREN 1001:Introduction to French Language and Culture I * (or higher)
- or
- GRMN 1001:Introduction to German Language and Culture I * (or higher)
- or
- ITAL 1001:Introduction to Italian Language and Culture I * (or higher)
- or
- SPAN 1001:Introduction To Spanish Language and Culture I * (or higher)

- EDUC 2110:Investigating Critical and Contemporary Issues in Education
- EDUC 2120:Sociocultural Influences on Teaching and Learning

Note: *Must be different from the Primary Language.

Applied Business

- ACCT 2101:Principles of Accounting I

- ECON 2106:Principles of Microeconomics
- or
- ECON 2105:Principles of Macroeconomics *

- BLAW 2200:Legal and Ethical Environment of Business

Note: * If ECON 2106 already taken in General Education.

Cross-disciplinary Perspectives

(choose three of the following courses)

- ARH 2750:Ancient through Medieval Art
- GEOG 1101:Introduction to Human Geography
- HIST 2206:Origins of Great Traditions
- HS 2100:Overview of Human Services

Required Core Courses (Chinese, French, German, Italian, or Spanish) (30 Credit Hours)

Chinese

- CHIN 3200:Critical Reading and Applied Writing
- CHIN 3302:Practical Conversation
- CHIN 3303:Grammar and Composition
- CHIN 3304:Readings in Culture I
- CHIN 3305:Readings in Culture II

- CHIN 3398: Internship (Completed in Chinese)
or
- CHIN 3390: Upper-division Study Abroad in Chinese
- CHIN 4404: Commercial Chinese
- CHIN 4434: Topics in Language, Literature, and Culture
- CHIN 4456: Advanced Grammar and Linguistics
- CHIN 4499: Senior Seminar

French

- FREN 3200: Critical Reading and Applied Writing
- FREN 3302: Practical Conversation
- FREN 3303: Grammar and Composition
- FREN 3304: Literature and Culture I
- FREN 3305: Literature and Culture II
- FREN 3398: Internship (completed in French)
or
- FREN 3390: Upper-division Study Abroad in French
- FREN 4402: Contemporary Culture
- FREN 4434: Topics in Language, Literature, and Culture
- FREN 4456: Advanced Grammar and Linguistics
- FREN 4499: Senior Seminar

German

- GRMN 3200: Critical Reading and Applied Writing
- GRMN 3302: Practical Conversation
- GRMN 3303: Grammar and Composition
- GRMN 3304: Literature and Culture I
- GRMN 3305: Literature and Culture II
- GRMN 3398: Internship (completed in German)
or
- GRMN 3390: Upper-division Study Abroad in German
- GRMN 4402: Contemporary Culture
- GRMN 4434: Topics in Language, Literature, and Culture
- GRMN 4456: Advanced Grammar and Linguistics
- GRMN 4499: Senior Seminar

Italian

- ITAL 3200:Critical Reading and Applied Writing
- ITAL 3302:Practical Conversation
- ITAL 3303:Grammar and Composition
- ITAL 3304:Literature and Culture I
- ITAL 3305:Literature and Culture II

- ITAL 3390:Upper-division Study Abroad in Italian
or
- ITAL 3398:Internship

- ITAL 4402:Contemporary Culture
- ITAL 4434:Topics in Language Literature and Culture
- ITAL 4456:Advanced Grammar and Linguistics
- ITAL 4499:Senior Seminar

Spanish

- SPAN 3200:Critical Reading and Applied Writing
- SPAN 3302:Practical Conversation
- SPAN 3303:Grammar and Composition
- SPAN 3304:Literature and Culture I
- SPAN 3305:Literature and Culture II

- SPAN 3398:Internship (completed in Spanish)
or
- SPAN 3390:Upper-division Study Abroad in Spanish

- SPAN 4402:Contemporary Culture
- SPAN 4434:Topics in Language, Literature, and Culture
- SPAN 4456:Advanced Grammar and Linguistics
- SPAN 4499:Senior Seminar

Other Requirements

Select one concentration I. Second Language and Culture II. Teacher Certification in Foreign Languages III. Applied Business IV. Cross-disciplinary Perspectives

Concentration I: Second Language and Culture (9 Credit Hours)

Select three 3000 level courses (or higher) within your second language (Chinese, French, German, Italian, Portuguese, or Spanish)

Concentration II: Teacher Certification in Foreign Languages (33 Credit Hours)

The Teacher Certification in Foreign Language concentration is designed to prepare Foreign Language Education teachers at all grade levels (pre-kindergarten through grade 12). It leads to P-12 teacher certification in the teaching field of (Chinese, French, German, or Spanish) in Georgia. Candidates complete a major in Modern Language and Culture (primary language: Chinese, French, German, or Spanish) and the equivalent of a second major in pedagogical studies with an emphasis on teaching a foreign language.

- EDUC 2130:Exploring Teaching and Learning
- FLED 4408:Second Language Acquisition
- FLED 4410:Methods, Materials, and Curriculum of Foreign Language Education, P-8
- FLED 4412:Methods, Materials, and Curriculum of Foreign Language Education, 9-12
- FLED 4414:Technology for Foreign Language Teaching
- INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I
- INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- FLED 4650:Yearlong Clinical Experience I
- FLED 4651:FLED Seminar I
- FLED 4660:FLED Yearlong Clinical Experience II
- FLED 4661:FLED Seminar II

Concentration III: Applied Business (9 Credit Hours)

- MKTG 3100:Principles of Marketing
- MGT 3100:Management and Behavioral Sciences

- CHIN 4404:Commercial Chinese *
- or
- FREN 4404:Commercial French *
- or
- GRMN 4404:Commercial German *
- or
- ITAL 4404:Commercial Italian *
- or
- SPAN 4404:Commercial Spanish *

Note: * Must be the same as the primary language

Concentration IV: Cross-Disciplinary Perspectives (9 Credit Hours)

(Choose three of the following courses):

- ANTH 3310:Cultural Diversity in the U.S.
- ORGC 3325:Intercultural Communication
- HIST 3305:The World Since 1945

- PSYC 3355:Cross-Cultural Psychology

Related Studies (9 Credit Hours)

(Applies to concentrations I, III, and IV only): Nine hours of upper-division studies beyond the major requirements as approved by the academic advisor. Lower division courses or additional internship or study abroad hours may also be approved when appropriate.

Free Electives (12 Credit Hours)

(Applies to concentrations I, III, and IV only): Any courses in the university curriculum.

Program Total: Concentrations I, III, and IV (120 Credit Hours)

Program Total: Concentration II (123 Credit Hours)

Organizational and Professional Communication, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/socm/programs/bsopc.php>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

Organizational Communication professionals study the role of communication in increasing corporate productivity and employee satisfaction. KSU is the only Georgia institution offering an undergraduate concentration in Organizational Communication. Organizational Communication students learn the skills they need to develop employee training programs, training manuals, and employee handbooks. Students also conduct communication audits at area companies to measure employee satisfaction with company communication practices. Students often intern in corporate human resources or training and development departments.

The Organizational and Professional Communication major requires 18 credit hours of lower division course work (1000-2000 level) comprising various offerings, both inside and outside of the communication discipline, that serve as important groundwork leading to advanced studies. Lower division offerings include basic courses in communication research, visual communication, public speaking, writing, organizational communication careers, and an introductory course in organizational communication.

Admission Requirements

The below Admission Requirements have been suspended for this program. Students declaring an Organizational and Professional Communication major can enroll in any gated SOCM course for which they have met the course prerequisites.

Admission to the Organizational and Professional Communication program is separate from admission to Kennesaw State University. Students must meet the admission requirements to pursue this degree program, outlined below.

- All organizational and professional communication majors must earn a grade of "C" or better in all School of Communication and Media courses counted toward their degree and pass the Communication Entrance Exam with a score of 78% or higher. Students who fail to pass the grammar test in three attempts must pursue majors in other departments.
- Meet the School of Communication & Media (SOCM) Sophomore GPA Requirement. This Sophomore GPA requirement consists of combined adjusted 2.75 GPA in the following five courses:
 - COM 2020
 - COM 2033
 - COM 2129
 - COM 2135
 - COM 2240
- Achieve a satisfactory score on the SOCM Entrance Exam. Students may take the test no more than three times.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

To be eligible to apply to the major in Organizational and Professional Communication, students must have a 2.75 combined adjusted GPA in these five courses: COM 2020, COM 2033, COM 2129, COM 2135, COM 2240. COM 2230 is also required but is not included in the GPA calculation.

- COM 2020:CSI: Communication Sources and Investigations
- COM 2129:Public Speaking
- COM 2033:Visual Communication
- COM 2135:Writing for Public Communication

- COM 2230:Introduction to Mass Communication
- COM 2240:Communication Law, Ethics and Diversity

Major Requirements (21 Credit Hours)

- ORGC 3325:Intercultural Communication
- ORGC 3376:Interpersonal Communication
- COM 3435:Communication Research Methods
- ORGC 3025:Introduction to Organizational & Professional Communication
- ORGC 4344:Training and Development
- ORGC 4440:Leadership Communication
- ORGC 4455:Organizational Communication Practicum (Capstone)

Organization Communication Electives (6 Credit Hours)

Choose two:

- ORGC 3345:Team Communication
- ORGC 3459:Communication and Conflict
- ORGC 4470:Topics in Organizational & Professional Communication
- COM 3320:Health Communication
- PR 4405:Digital Publication Design
- COM 3398:Internship in Communication
- COM 3340:Digital Media Production

Upper Division SOCM Electives (9 Credit Hours)

Choose three courses from any COM, JOUR, ORGC, MENT, or PR course not previously taken. The list below provided recommended electives for Organizational and Professional Communication majors. Please take into account any prerequisites required. (These courses may also be taken as Free Electives)

- COM 3315:Interviewing
- COM 3320:Health Communication
- COM 3398:Internship in Communication
- COM 4400:Directed Study
- MENT 4444:Film and Video Structure and Process
- COM 4490:Special Topics in Communication
- JOUR 3310:Concepts in New Media
- ORGC 3345:Team Communication
- ORGC 3459:Communication and Conflict
- PR 3335:Public Relations Principles
- PR 3355:Public Relations Cases
- PR 3375:Public Relations Writing
- PR 3429:Persuasion Methods and Strategies
- PR 4405:Digital Publication Design

- COM 3340:Digital Media Production
- ORGC 4470:Topics in Organizational & Professional Communication

Related Studies (12 Credit Hours)

Upper division course work (3000-4000 level) outside of the School of Communication & Media (SOCM). These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Students should determine needed prerequisites. Completion of Formal Minor or Certificate Program would also satisfy the Related Studies requirement.

Free Electives (12 Credit Hours)

Any courses (1000-4000 level) in the university curriculum. Students must earn a grade of "D" or better.

Program Total (120 Credit Hours)

Philosophy, B.A.

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/>

Phone: 470-578-6294

Email: histphildept@kennesaw.edu

Program Description

The program of study in philosophy offers a Bachelor of Arts degree. All majors take several general requirements, including a foreign language through FL 2001 and a three-hour senior seminar. Philosophy majors are expected to demonstrate:

- General knowledge of philosophical traditions and their social and historical contexts;
- Knowledge of varied philosophical questions, problems, and issues; relevant social and historical contexts; and various methodological approaches to them;
- Ability to conduct philosophical research;
- Ability to read and think critically; and
- Ability to communicate effectively both orally and in writing.

Program Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Requirements (AREA F) (18 credit hours):

- PHIL 2100:Values and Society
or
- PHIL 2110:Religions of the World

- PHIL 2500:Logic
- PHIL 2700:Methods and Themes in Comparative Philosophy
- FL 1002:Introduction to Foreign Language and Culture II
- FL 2001:Intermediate Foreign Language and Culture I
- HIST 2206:Origins of Great Traditions

Major Requirements (30 Credit Hours)

Required Courses (18 Credit Hours)

- PHIL 3200:Asian Philosophy
or
- PHIL 3210:Latin American and Caribbean Philosophy

- PHIL 3100:Ethics
or
- PHIL 3110:Social and Political Philosophy

- PHIL 3000:Ancient and Medieval Philosophy
- PHIL 3010:Modern Western Philosophy

- PHIL 4450:Major Figures in Philosophy
or

- PHIL 4460:Major Themes in Philosophy
- PHIL 4499:Senior Seminar

Upper Division Major Electives (12 hours)

Select twelve credit hours from the following courses:

- PHIL 3020:American Philosophy
- PHIL 3030:Existentialism
- PHIL 3100:Ethics
- PHIL 3110:Social and Political Philosophy
- PHIL 3120:Philosophies of Peace
- PHIL 3130:Feminist Philosophy
- PHIL 3200:Asian Philosophy
- PHIL 3210:Latin American and Caribbean Philosophy
- PHIL 4000:Nineteenth Century Western Philosophy
- PHIL 4030:Phenomenology
- PHIL 4200:Indian Philosophy
- PHIL 4210:Chinese Philosophy
- PHIL 4220:Japanese Philosophy
- PHIL 4450:Major Figures in Philosophy
- PHIL 4460:Major Themes in Philosophy

Upper Division Electives (15 credit hours):

Any 3000 or 4000-level courses or a minor.

Free Electives (15 Credit Hours)

Any courses in the university curriculum.

Program Total (120 credit hours)

Political Science, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/sgia/>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Program Description

Political Science is the study of the formal institutions of government and the actual behavior of people in public life. It examines both the institutions and processes of government using both

empirical and normative research methodologies. A degree with a major in political science is of value to all persons who take the responsibilities and opportunities of membership in a democratic society seriously. Specifically, political science is the undergraduate major of a majority of persons who attend law school; serves as prerequisite for graduate study in a number of social science disciplines; and is an ideal liberal arts major for careers in business, journalism, public and international affairs, the federal government, state and local government, teaching, interest groups, campaign management, communications, and many others.

Supervised internships and cooperative study programs at sites in business, industry and government are available and students are strongly urged to participate.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- POLS 2212:State and Local Government
- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations
- POLS 2270:Political Ideologies
- POLS 2280:Research Methods
- Select one of the following:
- ANTH 2220:The Anthropology of Death
- ANTH 2777:Anthropology of Tourism
- COM 2020:CSI: Communication Sources and Investigations
- COM 2129:Public Speaking
- COM 2135:Writing for Public Communication
- COM 2230:Introduction to Mass Communication
- CRJU 2201:Crimes and Defenses
- PHIL 2100:Values and Society
- PHIL 2110:Religions of the World
- PHIL 2500:Logic
- SOCI 2251:Social Problems

Major Requirements (21 Credit Hours)

Senior Seminar (3 Credit Hours)

- POLS 4499:Senior Seminar

Sub-fields (18 Credit Hours)

Students must choose one course from each of the five sub-fields. The remaining course may be chosen from any of the five sub fields.

Subfield 1: American Government and Politics

- POLS 3360:The United States Congress
- POLS 3370:The United States Presidency
- POLS 3385:Campaigns and Elections

Subfield 2: Global Studies

- POLS 3350:American Foreign Policy
- POLS 4430:International Law and Organization
- POLS 4436:Politics of Developing Areas

Subfield 3: Political Theory

- POLS 4423:Great Political Thinkers
- POLS 4427:American Political Thought
- POLS 4428:Race, Gender, and the Politics of Difference

Subfield 4: Public Law and Administration

- POLS 3300:U.S. Constitution and Courts
- POLS 3343:Principles of Public Administration
- POLS 4412:Urban Affairs and Problems

Subfield 5: Research Methods

- POLS 4280:Advanced Research Methods and Data Analysis
- POLS 3313:Public Policy Analysis
- POLS 3320:Legal Research
- POLS 3394:Public Polling and Survey Techniques

Upper-Division Major Electives (15 Credit Hours)

Choose five 3000/4000 level POLS courses

Related Studies (12 Credit Hours)

Select four 3000-4000 level courses from any of the following prefixes: POLS, AADS, AMST, ANTH, ASIA, CHIN, COM, CRJU, ENGL, ENVS, EUST, FILM, FREN, GEOG, GIS, GRMN, GWST, HIST, IAD, ISD, ITAL, JOUR, LALS, LING, MENT, MILS, ORGC, PAX, PHIL, PORT, PR, PSYC, SA, SOCI, SPAN, TCID, TCOM, or WRIT

Free Electives (12 Credit Hours)

Any courses in the university curriculum totaling 15 credit hours. While not required, students are encouraged to take POLS 2220 Careers in Political Science as one of the elective courses for the B.S. degree.

Program Total (120 Credit Hours)

Embedded Certificates

Upon completion of the degree requirements and selection of specific courses in either sub-fields, Upper-Division Major Electives, or Related Studies students may earn the following certificates. Students, please consult with your academic advisor regarding declaration of a certificate.

- Constitutional Studies Certificate - Embedded
- Professional Politics Certificate - Embedded
- Political Communication Certificate - Embedded

Psychology, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/psychscience/index.php>

Phone: (470) 578-6225

Email: psychadvising@kennesaw.edu

Program Description

Psychology is the scientific study of behavior and mental processes. It examines behavior and mental processes in an effort to serve human welfare. The Bachelor of Science degree with a major in Psychological Science is designed to provide students with strong research, communication, and critical thinking skills. As such, the program requires completion of an Introductory Psychology course, a Careers in Psychology course, a laboratory-based two-semester research sequence, courses from the primary areas of the discipline, and a senior capstone experience. The undergraduate degree with a major in psychological science provides students with a strong foundation for graduate study in a variety of disciplines. It also provides a broad liberal arts education that can serve as an entry point into bachelor's degree-level careers. Students are encouraged to select courses in consultation with an advisor.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower-Division Major Requirements (Area F) (18 Credit Hours)

- PSYC 1101:Introduction to General Psychology
- PSYC 2103:Introduction to Human Development
- PSYC 2210:Careers in Psychology
- PSYC 2500:Research Methods in Psychological Science
Any 1000/2000 level courses in STAT, MATH, BIOL, CHEM, PHYS, IT, TCOM, or CSE (6 credit hours)

Major Field Requirements (33 Credit Hours)

Must earn a "C" or better in all courses in this area. Must earn a "C" or better for prerequisites to be satisfied. Complete one course from each of the four areas and one capstone course. At least 21 of the 33 required hours in this section must be completed at KSU. At least 39 upper-level hours overall are required to graduate. Lower-level courses substituted for upper-level courses may not count toward the 39 hours. A maximum of 6 hours of PSYC 3398 / 4498 can be used in this section. A maximum of 6 hours of PSYC 4400 can be used in this section

Required Courses (6 Credit Hours)

- PSYC 3000:Statistical Applications in Psychological Science
- PSYC 4100:Advanced Laboratory in Psychological Science

Diversity and Multicultural Area (3 Credit Hours)

Choose one course from the following:

- PSYC 3355:Cross-Cultural Psychology
- PSYC 3385:Ethnic Minority Psychology
- PSYC 3395:Psychology of Prejudice and Privilege

- PSYC 3425:Psychology of Gender

Personality and Social Area (3 Credit Hours)

Choose one of the following:

- PSYC 3325:Social Psychology
- PSYC 3335:Theories of Personality

Biological Bases Area (3 Credit Hours)

Choose one of the following:

- PSYC 4410:Physiological Psychology
- PSYC 4415:Perception

Learning and Cognition Area (3 Credit Hours)

Choose one of the following:

- PSYC 4345:Learning and Behavior
- PSYC 4455:Cognitive Psychology

Psychology Electives (12 Credit Hours)

Choose any 3000/4000 level courses within PSYC for a total of 12 credit hours.

Senior Capstone Experience* (3 Credit Hours)

*Prereq: PSYC 4100; submission of an application before registration; and one course from each of the four areas. One of the four areas may be completed concurrently. * Students must take the ETS Major Field Test as part of the Capstone Experience. * PSYC 4400 or HON 4499 may substitute. Application available in department office. Choose one of the following:

- PSYC 4498:Capstone Internship in Psychology
- PSYC 4499:Capstone Seminar in Psychology
- PSYC 4500:Capstone Integrative Project

Upper-Division Electives (12 Credit Hours)

Choose any 3000/4000 level courses outside of PSYC for a total of 12 credit hours. *Courses applied towards a minor: 1) typically appear here or in Free Electives, 2) cannot also be applied towards General Education requirements, and 3) must consist of ≥ 12 credit hours that are not applied towards the major

Free Electives (15 Credit Hours)

Any courses in the university curriculum for a total of 15 credit hours.

Program Total (120 Credit Hours)

Public Relations, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/socm/programs/bspr.php>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

The Public Relations major at Kennesaw State University offers a professionally-focused, marketplace-relevant, and theoretically-rigorous academic program for aspiring public relations communicators throughout Metro Atlanta and Northwest Georgia. Kennesaw State is one of only three universities in the state of Georgia to offer a specific major in the ever-evolving discipline of Public Relations. The major offers students a public relations education that includes public relations principles, case study analysis, public relations writing, crisis communication, graphic design for organizational publications, persuasion methods and strategies, and use of social media and other multi-media communication strategies in public relations. Internships and study tours to New York and Atlanta public relations agencies supplement the traditional classroom and online learning settings.

The major requires 18 credit hours of lower division course work (1000-2000 level) comprising various offerings, both inside and outside of the communication discipline, that serve as important groundwork leading to advanced studies. Lower division offerings include basic courses in communication research, visual communication, public speaking, writing, information systems, and an introductory course relevant to the student's selected program of study.

Admission Requirements

Admission to the Media and Entertainment program is separate from admission to Kennesaw State University. Students must meet the admission requirements to pursue this degree program, outlined below.

- All communication and media majors must earn a grade of 'C' or better in all communication and media courses counted toward their degree and pass the Communication Entrance Exam with a score of 78% or higher. Students who fail to pass the grammar test in three attempts must pursue majors in other departments.
- Meet the School of Communication & Media (SOCM) Sophomore GPA requirement. This Sophomore GPA requirement consists of combined adjusted 2.75 GPA in the following five courses:
 - COM 2020
 - COM 2033
 - COM 2129
 - COM 2135

- COM 2240
- Achieve a satisfactory score of 78% or higher the SOCM Entrance Exam. Students may take the test no more than three times. ***This Entrance Exam requirement will be waived for students in this catalog year.***

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirement (Area F) (18 hours)

- COM 2020:CSI: Communication Sources and Investigations
- COM 2129:Public Speaking
- COM 2033:Visual Communication
- COM 2135:Writing for Public Communication
- COM 2240:Communication Law, Ethics and Diversity
- COM 2230:Introduction to Mass Communication

Major Requirements (33 Credit Hours)

Required Courses (18 Credit Hours)

- COM 3435:Communication Research Methods
- PR 3335:Public Relations Principles
- PR 3355:Public Relations Cases
- PR 3375:Public Relations Writing
- PR 4460:Crisis Communication
- PR 4465:Public Relations Campaigns (Capstone)

Major Electives (15 Credit Hours)

Choose five from the courses below. Only 3 credit hours of COM 3398 can count toward a student's major elective hours.

- COM 3340:Digital Media Production
- COM 3350:Editing for Today's Media
- COM 3398:Internship in Communication
- JOUR 3310:Concepts in New Media
- JOUR 3330:News Reporting and Writing
- JOUR 4420:Advanced Media Writing
- JOUR 4470:Media Law
- PR 3380:PR Strategies and Tactics
- PR 3385:International Public Relations
- PR 3429:Persuasion Methods and Strategies
- PR 4210:Social Media for Strategic Communication
- PR 4405:Digital Publication Design
- PR 4415:Topics in Public Relations
- PR 4425:Media Relations
- PR 4495:Public Relations Study Tour
- PR 4605:Magazine Media
- PR 4670:Crisis Leadership Communication

Upper Division Electives (3 Credit Hours)

Students may choose from any 3000 or 4000-level PR, COM, JOUR, MENT, ORGC course not previously taken. COM 3398 may be repeated. The list below provides recommended electives for Public Relations majors. Please take into account any prerequisites required.

- COM 3315:Interviewing
- COM 3320:Health Communication
- COM 3340:Digital Media Production
- COM 3350:Editing for Today's Media
- COM 3398:Internship in Communication
- COM 4100:Directed Applied Research
- COM 4400:Directed Study
- COM 4490:Special Topics in Communication
- COM 4499:Senior Thesis
- JOUR 3310:Concepts in New Media
- JOUR 3330:News Reporting and Writing
- JOUR 3360:Photojournalism
- JOUR 4420:Advanced Media Writing
- JOUR 4470:Media Law
- ORGC 3325:Intercultural Communication
- ORGC 3376:Interpersonal Communication
- ORGC 4440:Leadership Communication
- PR 3380:PR Strategies and Tactics
- PR 3385:International Public Relations
- PR 4210:Social Media for Strategic Communication
- PR 4405:Digital Publication Design
- PR 4415:Topics in Public Relations

- PR 4495:Public Relations Study Tour
- PR 4605:Magazine Media
- PR 4670:Crisis Leadership Communication

Related Studies (12 Credit Hours)

Upper division course work (3000-4000 level) outside of the School of Communication & Media (SOCM). These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Students should determine needed prerequisites. Completion of Formal Minor or Certificate Program would also satisfy the Related Studies requirement.

Free Electives (12 Credit Hours)

Any course (1000-4000) in the university curriculum, with a grade of "D" or better.

Program Total (120 Credit Hours)

Embedded Certificates

Upon completion of the degree requirements and selection of specific courses in either sub-fields, Upper-Division Major Electives, or Related Studies students may earn the following certificates. Students, please consult with your academic advisor regarding declaration of a certificate.

- Political Communication Certificate - Embedded

Sociology, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/scj/programs/bss.php>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

The Bachelor of Science degree with a major in Sociology prepares students to understand and deal with diversity, modernization, and social change ranging from the local to global scale. The core competencies of the program prepare students to enter careers requiring technological facility, communication skills, data gathering and analysis skills, community awareness and involvement, problem-solving, critical thinking, an understanding of the structure and functioning of groups and organizations, greater awareness of their environment, critical self-reflection, and interpersonal and intercultural skills. Besides career preparation, specific concentrations in the major also provide background for graduate study in sociology and other related disciplines.

Students who graduate with a degree in Sociology would be prepared to work as demographers and data analysts, public survey workers, social research assistants, affirmative action officers, employee

specialists, cultural diversity trainers, social services specialists, policy analysts, criminologists in law enforcement and corrections, and numerous other occupations.

The program of study offers students both intellectual growth and marketable technical skills. A degree in Sociology is good preparation for graduate study in various disciplines, including Sociology, Public Health, Law, Business, Social Work, and Psychology. Included in the curriculum are concentrations in:

- ***Culture and Social Change***: Students will acquire a global perspective and the conceptual tools necessary to work in a variety of professional settings and academic positions
- ***Criminology***: Students will learn about the causes of crime, how to measure the extent of crime, and how to critically examine the approaches used to prevent, sanction, and change criminal behavior.
- ***Medical Sociology***: Students will develop a critical understanding of the health care delivery system and its various stakeholders, including patients, organizations, and providers. Other areas with the medical sociology concentration include aging, mental health, human sexuality, biotechnology and ethical issues, and substance abuse.
- ***General Sociology***: Students will be able to choose among all Sociology courses to customize a course of study that is specific to their interests and career goals.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Required Courses (9 Credit Hours)

- SOCI 1101:Introduction to Sociology
- SOCI 2210:Professional Development for Sociology Students
- SOCI 2251:Social Problems

Electives (9 Credit Hours)

Select three of the following:

- AADS 1101:Introduction to African Diaspora Studies
- COM 2230:Introduction to Mass Communication
- COM 2240:Communication Law, Ethics and Diversity
- CRJU 2201:Crimes and Defenses
- GEOG 1130:World Regional Geography
- GWST 2000:Introduction to Gender and Women's Studies
- HS 2100:Overview of Human Services
- HS 2200:Fundamentals of Nonprofits
- HS 2300:Cultural Competence in the Human Services
- LDRS 2100:Leadership & Historic Social Movements
- PHIL 2100:Values and Society
- PHIL 2500:Logic
- POLS 2212:State and Local Government
- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations

Major Requirements (21 Credit Hours)

- SOCI 3300:Foundations of Social Theory
 - SOCI 3305:Research Methods in Sociology
 - SOCI 4499:Senior Seminar in Sociology
- Select two of the following:
- SOCI 3314:Race and Ethnicity *
 - SOCI 3324:Sociology of Gender *
 - SOCI 3350:Intersections of Race, Class, and Gender *
 - SOCI 3354:Social Class and Mobility *
- Select one of the following:
- SOCI 3304:Social Organization
- *
- SOCI 3333:Technology and Society
- Select one from the following options:
- SOCI 3396:Cooperative Study
 - SOCI 3398:Internship
 - SA 4490:Upper-division Study Abroad

Note: Students cannot use the same upper division level course for their upper division requirement and their concentration requirement.

Major Concentration (18 Credit Hours)

Select six courses in one concentration area:

Criminology Concentration

- CRJU 3305:Technology and Criminal Justice
- CRJU 3352:Juvenile Justice
- CRJU 3365:Profile of the Serial Offender
- CRJU 4430:Victimology
- SOCI 3303:Statistics for Sociology
- SOCI 3360:Sociology of Violence
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4410:Advanced Qualitative Research Methods in Sociology
- SOCI 4420:Advanced Quantitative Research Methods in Sociology
- SOCI 4432:Criminology
- SOCI 4442:Deviance and Social Control

Culture and Social Change Concentration

- SOCI 3303:Statistics for Sociology
- SOCI 3304:Social Organization
- SOCI 3310:Introduction to Gerontology
- SOCI 3314:Race and Ethnicity
- SOCI 3315:Transnational Sociology
- SOCI 3324:Sociology of Gender
- SOCI 3333:Technology and Society
- SOCI 3334:Religion and Society
- SOCI 3344:Biotechnology and Social Change
- SOCI 3350:Intersections of Race, Class, and Gender
- SOCI 3354:Social Class and Mobility
- SOCI 3364:Sociology of the Family
- SOCI 3374:Sociology of Work and Occupations
- SOCI 4410:Advanced Qualitative Research Methods in Sociology
- SOCI 4420:Advanced Quantitative Research Methods in Sociology
- SOCI 4434:Emerging Social Issues in Africa
- SOCI 4435:Sociology of South Asia
- SOCI 4444:Social Movements and Social Change

Medical Sociology Concentration

- SOCI 3303:Statistics for Sociology
- SOCI 3310:Introduction to Gerontology

- SOCI 3320:Exploring the Aging Network
- SOCI 3344:Biotechnology and Social Change
- SOCI 3360:Sociology of Violence
- SOCI 3380:Society, Community, & Health
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4410:Advanced Qualitative Research Methods in Sociology
- SOCI 4420:Advanced Quantitative Research Methods in Sociology
- SOCI 4443:Medical Sociology
- SOCI 4445:Sociology of Mental Illness

General Sociology Concentration

- SOCI 3303:Statistics for Sociology
- SOCI 3304:Social Organization
- SOCI 3310:Introduction to Gerontology
- SOCI 3314:Race and Ethnicity
- SOCI 3315:Transnational Sociology
- SOCI 3320:Exploring the Aging Network
- SOCI 3324:Sociology of Gender
- SOCI 3333:Technology and Society
- SOCI 3334:Religion and Society
- SOCI 3344:Biotechnology and Social Change
- SOCI 3350:Intersections of Race, Class, and Gender
- SOCI 3354:Social Class and Mobility
- SOCI 3360:Sociology of Violence
- SOCI 3364:Sociology of the Family
- SOCI 3374:Sociology of Work and Occupations
- SOCI 3380:Society, Community, & Health
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4410:Advanced Qualitative Research Methods in Sociology
- SOCI 4420:Advanced Quantitative Research Methods in Sociology
- SOCI 4432:Criminology
- SOCI 4434:Emerging Social Issues in Africa
- SOCI 4435:Sociology of South Asia
- SOCI 4442:Deviance and Social Control
- SOCI 4443:Medical Sociology
- SOCI 4444:Social Movements and Social Change
- SOCI 4445:Sociology of Mental Illness

Upper Division Electives (9 Credit Hours)

Upper Division Electives 9 hours: Nine hours of upper-division (any 3000-4000 courses in the university curriculum) studies beyond the major requirements.

Free Electives (12 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Technical Communication, B.S.

Contact Information

Website: <https://radow.kennesaw.edu/tcid/programs/bstc.php>

Phone: (470) 578-7202

Email: tcid@kennesaw.edu

Program Description

Technical communicators work between subject-matter experts and real-world users to make complex ideas clear, easy to understand, and usable. Students in the BS in Technical Communication program are creative, technically adept problem-solvers who feel comfortable working in multiple media, possess strong communication skills, and are open to continually learning new technologies and subject-matter knowledge. BSTC students take classes in technical writing, research methods, website development, usability, instructional design, and visual information design. Hands-on experience in class, combined with a strong theoretical background, allows students to land highly desired jobs as technical communicators, user experience (UX) designers, information architects, information designers, instructional designers, and more.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ICT 2101:Information and Communications Technology
- TCID 2002:Productivity Tools and Technologies
- TCID 2170:Introduction to Digital Media and Culture

- TCOM 2010:Technical Writing
- TCOM 2030:Research in Technical Communication
- Choose One:
- COM 2033:Visual Communication
- STS 1101:Science, Technology, and Society
- TCOM 2050:Issues in Digital Accessibility

Major Requirements (39 Credit Hours)

Required Courses (21 Credit Hours)

- TCID 3100:Professional Development
- TCID 3400:Front-End Development I
- TCID 4700:Capstone Project and Portfolio Showcase
- TCOM 3011:Technical Writing II
- TCOM 3130:Technical Communication: Theory, Ethics, and Practice
- TCOM 3431:Information Design I
- TCOM 4000:Technical Editing

Major Electives (18 Credit Hours)

Select six (6) of the following:

- TCID 3800:Front-End Development II
- TCOM 3020:Grants and Proposals
- TCOM 3030:Instructional Design
- TCOM 3046:Information Architecture
- TCOM 3070:User Assistance
- TCOM 3145:Social Media Infrastructure
- TCOM 3245:Search Engine Optimization and Analytics
- TCOM 3398:Internship
- TCOM 4050:Instructional Video
- TCOM 4120:Usability
- TCOM 4400:Directed Study
- TCOM 4431:Information Design II
- TCOM 4490:Special Topics in Technical Communication

Upper-Division Electives (9 Credit Hours)

Select 9 hours of upper division course work (3000 - 4000 level) inside or outside of the Technical Communication Major passing with a C or better. These hours do not have to be taken in a single discipline, but should relate to a particular interest or career goal. Completion of a Formal Minor or Certificate Program would also satisfy the Related Studies requirement.

Recommended Minors Include: Crisis Preparedness, Foreign Languages (French, Spanish, German, Italian, Korean, Japanese), Linguistics, Medical Sociology, Professional Writing, Psychology,

Sociology, Biology, Chemistry, Environmental Science, Physics, Cybersecurity, Information Technology, Software Engineering.

Recommended Certificates: Health Information Technology, Diversity and Community Engagement, Gender and the Workplace, Political Communication, Leadership Studies.

Recommended Classes: COM 3320 Health Communication, ORGC 4440 Leadership Communication, LING 3050 Sociolinguistics, GWST 3060 Gender in the Workplace.

Free Electives (12 Credit Hours)

Select 12 hours of courses in the university curriculum. This includes any course (1000 - 4000) in the university curriculum (including Technical Communication) passing with a D or better.

Program Total (120 Credit Hours)

Certificate

Geographic Information Sciences Certificate

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/cert-gis.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

Geographic Information Sciences is a multidisciplinary certificate that considers fundamental questions related to the use of geographic information systems (GIS). GIS is computer-based mapping technologies that visualizes, edits, manipulates and analyzes spatial data and imagery for decision makers. GIS is an essential tool in understanding what is where, and is used in urban and regional design, marketing and industrial location, transportation, precision agriculture, forestry, environmental systems, engineering, emergency services, epidemiology, crime analysis, and utilities, among others. The Certificate can be completed in-class or online.

Students must earn a "B" or higher cumulative grade in all the required courses, with a "C" or higher grade in each course.

[Click here to apply to the GIS certificate program.](#)

Required Courses (9 Credit Hours)

- GEOG 3305:Introduction to Cartographic Processes
- GEOG 3315:Introduction to Geographic Information Systems
- GIS 4415:Practicum in Geographic Information Systems

Choose two from the following (6 Credit Hours):

- GEOG 4500:Advanced Topics in Geospatial Science
- SURV 3320:Photogrammetry and Drone Analysis
- SURV 3451:Terrain Analysis
- GEOG 4405:Advanced Geographic Information Systems
- GEOG 4410:Introduction to Remote Sensing

Program Total (15 Credit Hours)

Land Surveying Certificate

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/cert-ls.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Land Surveying Certificate program is designed to prepare surveyors with the basic education necessary to take the Fundamentals of Land Surveying Exam and meets the State of Georgia academic registration requirements to become a Professional Land Surveyor.

Please see an academic advisor regarding course prerequisites.

Requirements

- SURV 2221:Surveying I
- SURV 2221L:Surveying I Lab
- SURV 3222:Surveying II
- SURV 3222L:Surveying II Lab
- SURV 4465:Legal Aspects of Land Surveying
- SURV 4470:Land Development Design
- SURV 4475:Land Surveying Practice

Program Total (18 Credit Hours)

Technical Communication Certificate

Contact Information

Website: <https://radow.kennesaw.edu/tcid/programs/tcomminor.php>

Phone: (470) 578-7202

Email: tcid@kennesaw.edu

Program Description

The Certificate in Technical Communication provides students with the competencies necessary to communicate about specialized or technical topics through coursework centered on developing usable, reader-centered information. Students have the opportunity to specialize in web technologies, information design, user experience research, or content development.

Required Course (3 Credit Hours)

- TCOM 2010:Technical Writing

Elective Courses (9 Credit Hours)

Select three courses from the following:

- TCID 2002:Productivity Tools and Technologies
- TCID 3400:Front-End Development I
- TCID 3800:Front-End Development II
- TCOM 2030:Research in Technical Communication
- TCOM 2050:Issues in Digital Accessibility
- TCOM 3011:Technical Writing II
- TCOM 3020:Grants and Proposals
- TCOM 3030:Instructional Design
- TCOM 3070:User Assistance
- TCOM 3130:Technical Communication: Theory, Ethics, and Practice
- TCOM 3145:Social Media Infrastructure
- TCOM 3245:Search Engine Optimization and Analytics
- TCOM 3431:Information Design I
- TCOM 4000:Technical Editing
- TCOM 4045:Multi-Media for Technical Communicators
- TCOM 4050:Instructional Video
- TCOM 4120:Usability
- TCOM 4431:Information Design II

Program Total (12 Credit Hours)

Formal Minor

African and African Diaspora Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-aads.php>

Phone: 470-578-2431

Email: isd@kennesaw.edu

The Minor in African and African Diaspora Studies offers students an interdisciplinary educational experience that fosters an understanding of the transnational experiences of African and African-descended peoples in the US, Caribbean, South America, Europe, and Asia. Students will gain an appreciation for the diverse character of humanity, explore the complex historical and cultural relations between Africans on the continent and African-descended peoples in the Diaspora, and engage in a comparative study of issues affecting Africans in the continent and the Diasporas.

Required Courses (3 Credit Hours)

- AADS 1101:Introduction to African Diaspora Studies

Electives (12 Credit Hours)

Select four electives (12 credit hours) from the list. At least three of the electives (9 credit hours) must be 3000 or 4000 level courses.

- AADS 1102:Issues in African and African Diaspora Studies
- AADS 3310:Introduction to Hip Hop Studies
- AADS 3380:Study Abroad
- AADS 3400:Black Activism in Brazil
- AADS 3500:The Black Woman
- AADS 3520:Black Masculinities
- AADS 3550:Black Women's Health
- AADS 3780:Trends in African and African Diaspora Studies
- AADS 4040:Major Issues and Figures
- AADS 4100:Directed Applied Research
- AADS 4400:Directed Study in AADS
- AADS 4490:Special Topics in African and African Diaspora Studies
- ANTH 3310:Cultural Diversity in the U.S.
- ANTH 3360:Anthropology and Africa
- ANTH 3365:Afro-Brazilian Culture and Politics
- ARH 3100:African Art and Architecture
- ARH 3300:Ancient Egyptian and Nubian Art and Architecture
- ARH 4150:African-American Art
- ENGL 2300:African-American Literature
- ENGL 3360:Major African American Writers
- ENGL 3400:Survey of African Literatures
- ENGL 3500:Topics in African American Literature
- FREN 4434:Topics in Language, Literature, and Culture
- GEOG 3350:Geography of Sub-Saharan Africa
- GWST 3020:Black Feminisms
- HIST 3333:African American History to 1865
- HIST 3334:The Africans in the Diaspora
- HIST 3335:African American History, 1865 to Present
- HIST 3358:Africans in Latin America and the Caribbean

- HIST 3391:History of West Africa
 - HIST 4905:History of the Atlantic World
 - MUSI 3411:Survey of African-American Music
 - POLS 3328:African American Politics
 - POLS 4412:Urban Affairs and Problems
 - POLS 4454:Politics of the Middle East
 - POLS 4455:International Relations of Africa
 - PSYC 3355:Cross-Cultural Psychology
 - PSYC 3385:Ethnic Minority Psychology
- Any other AADS-focused course in this area approved by faculty advisor

Program Total (15 Credit Hours)

Anthropology Minor

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/minor-anthropology.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Minor in Anthropology prepares students for graduate programs in Anthropology and work in professions and fields that require an understanding of the effects of culture on human behavior. This is becoming increasingly useful as the cultural diversity of our society and workplaces and the international focus of businesses and research have created a demand for professionals with anthropological training.

Required Courses (15 Credit Hours)

A total of 15 credit hours of anthropology courses. At least 9 credit hours of the courses must be 3000-4000 level courses.

ANTH 1102 cannot be used for the minor if it has been used to satisfy a general education requirement. If it has not been used to satisfy a general education requirement, ANTH 1102 can be used for the minor.

Program Total (15 Credit Hours)

Asian Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The minor in Asian Studies consists of 15 credit hours of Asian Studies coursework calculated in the following manner. A minimum of six (6) hours in the minor must be taken in residence at Kennesaw State University.

Required Course (3 Credit Hours)

- ASIA 3001:Understanding Asia

Select three of the following (9 Credit Hours)

- ANTH 3335:Archaeology Field Techniques
- ANTH 4490:Special Topics in Anthropology
- ASIA 3306:Understanding China through Films
- ASIA 3309:Survey of Chinese Literature and Culture
- ASIA 3340:Contemporary South Asian Literature
- ASIA 3355:Cultures and Capitalisms in Asia
- ASIA 3670:Survey of Asian Art
- ASIA 3950:Technology Strategy in Asia
- ASIA 4422:Archaeology of Asia
- ASIA 4457:South Asian Politics: A Comparative Perspective
- ASIA 4490:Special Topics for Asian Studies
- ORGC 3325:Intercultural Communication
- ECON 4310:Economic Development in Global Perspective
- GEOG 3360:Geography of Asia
- HIST 3372:Ancient to Pre-Modern China
- HIST 3373:Modern India and South Asia
- HIST 3374:Modern China
- PHIL 4200:Indian Philosophy
- PHIL 4210:Chinese Philosophy
- PHIL 4220:Japanese Philosophy
- POLS 4452:Politics of East Asia
- SA 4490:Upper-division Study Abroad
- Any other Asia-focused course approved by faculty advisor

Select one of the following (3 Credit Hours)

- CHIN 1001:Introduction to Chinese Language and Culture I
- CHIN 1002:Introduction to Chinese Language and Culture II
- CHIN 2001:Intermediate Chinese Language and Culture I
- CHIN 2002:Intermediate Chinese Language and Culture II
- JPN 1001:Introduction to Japanese Language and Culture I

- JPN 1002:Introduction to Japanese Language and Culture II
- JPN 2001:Intermediate Japanese Language and Culture I
- JPN 2002:Intermediate Japanese Language and Culture II
- KOR 1001:Introduction to Korean Language and Culture I
- KOR 1002:Introduction to Korean Language and Culture II
- KOR 2001:Intermediate Korean Language and Culture I
- KOR 2002:Intermediate Korean Language and Culture II

Program Total (15 Credit Hours)

Chinese Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The minor in Chinese Studies consists of 15 credit hours of Chinese coursework calculated in the following manner. A minimum of six (6) hours in the minor must be taken in residence at Kennesaw State University.

Required (15 Credit Hours)

- CHIN 2002:Intermediate Chinese Language and Culture II
- CHIN 3200:Critical Reading and Applied Writing
- CHIN 3302:Practical Conversation
- CHIN 3303:Grammar and Composition
- One additional course at the 3000- or 4000-level specific to Chinese studies. This course must be approved by a Chinese advisor and may include FL 3309, study abroad, or internships.

Program Total (15 Credit Hours)

Comparative American Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-amst.php>

Phone: (470) 578-7435

Email: isd@kennesaw.edu

Program Description

The Comparative American Studies minor at Kennesaw State University dedicates itself to crossing boundaries: disciplinary, social, cultural, and institutional. The program is multidisciplinary and interdisciplinary, focusing on the study of American cultures as they exist locally, regionally, nationally, and transnationally. With grounding in the content knowledge and methodologies from a range of fields, students are actively encouraged to pursue an understanding and critical analysis of the history, literature, arts, politics, language, philosophy, and social practices of the multitude of American communities.

Required Courses (6 Credit Hours)

Students may take any two of the following courses:

- ISD 2001:Introduction to Diversity and Social Justice
- AMST 3700:American Studies: Principles and Methods
- AMST 3720:America and Empire
- AMST 3730:Introduction to Native American Studies

Select one or two of the following (3-6 Credit Hours)

- AMST 3710:U.S. in the World
- AMST 3740:American Popular Culture
- AMST 3750:Place in American Culture
- AMST 3760:Advanced Studies in American Identities
- AMST 3770:American Cultural Productions
- AMST 3780:American Cultural Movements
- AMST 4490:Special Topics in American Studies

Select one or two of the following (3-6 Credit Hours)

One to two courses in 3000 or 4000 level courses in ISD programs where content of courses relates to the study of cultures of the United States and/or the Americas.

- AADS 3780:Trends in African and African Diaspora Studies
- AADS 3500:The Black Woman
- AADS 4040:Major Issues and Figures
- ASIA 3760:Asian American Cultural Identities
- GWST 3010:Queer Theory & Sexuality
- GWST 3030:Gender in Popular Culture
- GWST 3070:Gender and Social Justice
- LALS 3770:Latin American Cinema
- LALS 3780:Trends in Latin American/Latino Studies
- LALS 4490:Special Topics in Latin American/Latino Studies
- RELS 3780:Trends in Religious Studies
- PAX 3780:Trends in Peace Studies

- PAX 3220:Peace and Film

Electives (0-3 Credit Hours)

The balance of credits is drawn from the following. Alternatively, students may take an additional course from the list of program courses above. With the permission of the AS coordinator, English majors may use one ENGL course toward the minor AREA II electives, and history majors may use one HIST course toward the minor AREA II electives.

- ANTH 3321:Indigenous Peoples of North America
- ENGL 3340:Ethnic Literatures
- ENGL 3500:Topics in African American Literature
- ENGL 3360:Major African American Writers
- ENGL 4360:American Literature Before 1800
- ENGL 4460:19th-Century American Literature
- ENGL 4560:20th-Century and 21st-Century American Literature
- FILM 3220:Topics in American Cinema
- HIST 3310:The Old South
- HIST 3311:The New South
- HIST 4204:The History of the American West
- HIST 3331:History of Religion in the U.S.
- HIST 3335:African American History, 1865 to Present
- HIST 3341:Women in U.S. History and Culture
- HIST 4435:History and Memory
- PHIL 3020:American Philosophy
- POLS 4427:American Political Thought
- SOCI 3314:Race and Ethnicity
- ANTH 3310:Cultural Diversity in the U.S.
- ANTH 3315:Indigenous Peoples of the Southeast United States
- ANTH 3365:Afro-Brazilian Culture and Politics
- ARH 3200:Ancient American Art and Architecture
- ARH 3240:Native North American Art and Architecture
- ARH 3250:Latin American Art and Architecture
- ARH 3750:History of American Art and Architecture
- ARH 4150:African-American Art
- ARH 4750:American Landscape Painting
- MENT 4425:Gender, Race and Media
- HIST 4905:History of the Atlantic World
- HIST 4412:The Early Republic
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- HIST 4911:Themes in American Environmental History
- HIST 4410:Colonial America to 1763
- HIST 4411:The American Revolution
- HIST 4415:Jacksonian America
- HIST 4451:Civil War and Reconstruction

- HIST 4461:Gilded Age & Progressive Era
- HIST 4471:Recent United States History
- PHIL 3210:Latin American and Caribbean Philosophy
- POLS 3300:U.S. Constitution and Courts
- POLS 3315:American Constitutional Law: Federalism
- POLS 3328:African American Politics
- POLS 3350:American Foreign Policy
- POLS 3356:U.S. Environmental Policy & Politics
- SOCI 3350:Intersections of Race, Class, and Gender

Program Total (15 Credit Hours)

Criminal Justice Minor

Contact Information

Website: <https://radow.kennesaw.edu/scj/programs/minor-cj.php>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

Students will learn about crime and criminal justice issues, including interpersonal communication skills, leadership, and management concerns, technological applications, and ethical considerations.

The Minor in Criminal Justice is offered face to face and fully online.

Required Course (3 Credit Hours)

- CRJU 1101:Foundations of Criminal Justice

Law Enforcement (3 Credit Hours)

Select one from the following:

- CRJU 3310:Police in America
- CRJU 3311:Police Administration
- CRJU 3312:State and Federal Law Enforcement Initiatives

Corrections (3 Credit Hours)

Select one from the following:

- CRJU 3332:Corrections
- CRJU 3352:Juvenile Justice

Adjudication (3 Credit Hours)

Select one from the following:

- CRJU 3300:Criminal Courts
- CRJU 3315:Criminal Procedure
- CRJU 3340:Legal Analysis

Elective (3 Credit Hours)

Select one from the following:

- CRJU 3301:Research Methods in Criminal Justice *
- CRJU 3305:Technology and Criminal Justice
- CRJU 3320:Criminal Investigation
- CRJU 3400:Ideological/Group Violence and Law Enforcement
- CRJU 4100:Ethics in Criminal Justice
- CRJU 4305:Technology and Cyber Crime
- CRJU 4430:Victimology
- CRJU 4490:Special Topics in Criminal Justice
- SOCI 4432:Criminology *

Program Total (15 Credit Hours)

Note: Students whose undergraduate degrees are not in criminal justice, criminology, or related studies and who are interested in pursuing a master's degree program in Criminal Justice (MSCJ) at KSU should complete these two undergraduate courses (six hours) in Criminology and Research Methods in Criminal Justice. These two undergraduate courses are pre-requisites for the MSCJ program, and these six credit hours will not count toward the graduate degree requirements.

Criminology Minor

Contact Information

Website: <https://radow.kennesaw.edu/scj/programs/minor-criminology.php>

Phone: 470-578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

Economic conditions, rapid demographic changes, alterations in social institutions and extensive drug and alcohol abuse have led to high crime rates in the United States. Parallel social changes in other countries reflect concomitant increases in criminal behavior. Internationally, there is an increasing concern about public safety. Students will learn about the causes of crime, how to measure the extent of crime, and how to critically examine the approaches used to prevent, sanction, and change criminal behavior.

The Minor in Criminology is offered face to face and fully online.

Required Courses (6 Credit Hours)

- CRJU 1101:Foundations of Criminal Justice
or
- SOCI 1101:Introduction to Sociology

- SOCI 4432:Criminology

Select three of the following (9 Credit Hours)

- CRJU 3352:Juvenile Justice
- CRJU 3365:Profile of the Serial Offender
- CRJU 4410:Criminal Profiling and Analysis
- CRJU 4430:Victimology
- GEOG 3300:Urban Geography
- POLS 4405:Comparative Legal Systems
- POLS 4411:Criminal Law
- PSYC 3310:Psychopharmacology
- PSYC 4430:Abnormal Psychology
- SOCI 3360:Sociology of Violence
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4442:Deviance and Social Control

Program Total (15 Credit Hours)

Crisis Preparedness Minor

Contact Information

Website: <https://radow.kennesaw.edu/socm/>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

Research underscores the need for developing leaders and citizens who can respond appropriately in a crisis. The reality of today's crises is that they are likely to overlap organizational and geographic boundaries and catapult from local to international challenges. Crises-whether pandemics, natural disasters, information security, or terrorism-are realities for organizations and communities. This minor integrates courses from multiple disciplines (public relations, political science, information technology, and others) to prepare leaders and citizens to capitalize on the strengths and innovations needed to be prepared to respond to crises of the future.

Program of Study

Required Courses (9 Credit Hours)

- PR 4460:Crisis Communication
- ISA 3330:Information Security Approach to Crisis Management
- POLS 4200:Homeland Security Administration

Elective Courses (6 Credit Hours)

Choose two of the following:

- PR 4415:Topics in Public Relations
- CRJU 3400:Ideological/Group Violence and Law Enforcement
- CRJU 4100:Ethics in Criminal Justice
- PR 4670:Crisis Leadership Communication
- LDRS 3400:Service As Leadership
- NURS 4423:International Health Policy
- POLS 4431:Politics of International Terrorism
- POLS 4437:Global Security

Program Total (15 Credit Hours)

Environmental Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/minor-es.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

Environmental Studies is an interdisciplinary field that examines relationships between the human and physical landscapes. Topics such as global climate change, deforestation, wetland degradation, water, soil and air pollution, sustainability, economics, ethics, policies and laws, history, and literature all fall under the domain of environmental studies. Heightened public awareness about the hazards facing the environment, and the increasing demands placed on the environment by population growth, is spurring demand for environmental specialists. According to the U.S. Department of Labor Bureau of Labor Statistics, "Employment of environmental scientists and specialists is projected to grow 11 percent from 2014 to 2024, faster than the average for all occupations."

Required Courses (3 Credit Hours)

Note: Students must take one of the following courses. Students may elect to take both of the courses; students who take both ANTH 4430 and GEOG 3700 will need an additional 9 credit hours (selected from the options below).

- ANTH 4430:Environmental Anthropology Field Methods
- or -
- GEOG 3700:Introduction to Environmental Studies

Additional Courses (12 Credit Hours)

Note: Students may select any four courses from the list below. They may also apply credit earned in an environmentally-themed section of Special Topics (GEOG 4490) or Gender Studies (ENGL 3330, GWST 4040) courses with approval of the ENVS program coordinator.

- ENVS 3720:Sustainability at KSU
- ENVS 3730:Natural Resource Management
- ENVS 4300:Environmental Ethics
- GEOG 3305:Introduction to Cartographic Processes
- GEOG 3710:Local & Global Sustainability
- GEOG 3800:Climatology
- GEOG 3850:Global Climate Change
- GEOG 3900:Biogeography
- GEOG 4700:Geomorphology
- WRIT 3170:Environmental Writing and Literature
- POLS 4456:International Environmental Policy
- SCI 3360:Earth Science
- SCI 4700L:Applied Environmental Studies
- ENVS 3398:Internship

Program Total (15 Credit Hours)

Ethics Minor

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

The Ethics Minor focuses on ethical theories and how those theories are applied to issues in personal, professional, and social contexts. The minor has value for students from a wide range of majors who have an interest in thinking critically about ethical questions.

Required Courses (6 Credit Hours)

- PHIL 2100:Values and Society
- PHIL 3100:Ethics

Electives (9 Credit Hours)

Select 9 credit hours from the following:

- PHIL 3110:Social and Political Philosophy
- PHIL 3120:Philosophies of Peace
- PHIL 3130:Feminist Philosophy

Any directed studies course offered at KSU with content appropriate to Ethics approved by Philosophy Coordinator.

Any 3000-4000 level course offered at KSU with content appropriate to Ethics approved by the Philosophy Coordinator.

Any 3000-4000 level study abroad course offered at KSU with content appropriate to Ethics approved by the Philosophy Coordinator.

Any internship or service learning course offered at KSU with content appropriate to Ethics approved by the Philosophy Coordinator.

Program Total (15 Credit Hours)

European Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-european.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The Minor in European Studies is an interdisciplinary program. The minor offers courses incorporating basic and applied research, Study Abroad, and experiential learning. The goals of the Minor in European Studies are: to expand knowledge of Europe and its cultures; to encourage students to study a broad range of topics; and to embrace a spirit of engaged humanities at KSU and after graduation. The Minor emphasizes critical thinking skills and encourages the crossing of national and disciplinary boundaries.

Required Courses (6 Credit Hours)

- EUST 2050:Introduction to European Studies
- EUST 4040:Capstone in European Studies

Electives (9 Credit Hours)

Select three (3) courses from the following:

- ARH 2850:Renaissance through Modern Art
- ENGL 4570:20th-Century and 21st-Century British Literature
- FL 2209:World Languages and Cultures
- FREN 3305:Literature and Culture II
- FREN 4402:Contemporary Culture
- GEOG 3312:Geography of Europe
- GEOG 3305:Introduction to Cartographic Processes
- GRMN 4402:Contemporary Culture
- GWST 2050:Global Perspectives on Gender
- HIST 4558:The Holocaust
- HIST 3361:Themes in Slavic and Eastern European Studies
- HIST 4454:Twentieth Century Europe
- HIST 4655:Russia Since 1861
- ITAL 3305:Literature and Culture II
- ITAL 4402:Contemporary Culture
- MUSI 3317:History of Opera
- PHIL 4000:Nineteenth Century Western Philosophy
- POLS 4433:European Union Politics
- POLS 4439:Political Economy of Russia and Central Asia in Transition
- POLS 4449:Russian Foreign Policy
- POLS 4451:Politics and Government in Post-Communist Europe
- PORT 3304:Introduction to Lusophone Literatures and Cultures
- SPAN 3305:Literature and Culture II
- SPAN 4402:Contemporary Culture

Program Total (15 Credit Hours)

Film Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/english/programs/minor-fs.php>

Phone: (470) 578-7531

Email: ksuenglish@kennesaw.edu

Program Description

The Minor in Film Studies provides a broad background in moving image media, art, and entertainment. Along with courses in film analysis, history, and theory, professional training is also offered at various levels in story development, screenwriting, and TV writing. The minor offers interdisciplinary coursework that serves as a credential for students interested in graduate study or in working in the educational, commercial, or entertainment industries, whether locally, nationally, or internationally.

Select one of the following (3 Credit Hours)

- FILM 3105:Introduction to Screenwriting
- FILM 3125:Introduction to TV Writing

Select one of the following: (3 Credit Hours)

- FILM 4200:Theory-Based Studies in Film
- FILM 4105:Advanced Screenwriting *
- FILM 4125:Advanced TV Writing *

Select two of the following (6 Credit Hours)

- FILM 3200:Film History I
- FILM 3210:Film History II
- FILM 3215:Film History III

Select one of the following (3 Credit Hours)

- FILM 3220:Topics in American Cinema
- FILM 3230:Topics in World Cinema
- FILM 3240:Film Genres and Movements
- FILM 3250:Film Authors

Notes Any three credit 3000/4000 level film-based course taught in any other discipline can be taken to satisfy the FILM 3105, FILM 3220, FILM 3230, FILM 3240, or FILM 3250 requirement for the minor.

*Although the minor does not require students to do so, FILM 4105 and FILM 4125 can be taken up to two times (6 credit hours) for credit towards graduation.

Program Total (15 Credit Hours)

French and Francophone Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-french.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The minor in French and Francophone Studies requires 15 hours of FREN course work at the level of 2002 or above. These 15 hours must include FREN 3200, FREN 3302, and FREN 3303. Advanced speakers should consult with a French advisor about testing options using the Advanced Standing examinations available in the Department of Foreign Languages.

Program Total (15 credit hours)

Gender and Women's Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-gwst.php>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Gender & Women's Studies (GWST) minor is designed to increase students' awareness of the impact of changing gender roles. The program encourages students to understand and value diversity by exploring differences among people, promoting dialogue on issues of diversity, and providing service learning experiences in the community.

Required Courses (6 Credit Hours)

- GWST 2000:Introduction to Gender and Women's Studies
- GWST 4000:Research in Gender and Women's Studies

Electives (9 Credit Hours)

Select three additional GWST-prefixed courses.

Program Total (15 Credit Hours)

Geography Minor

Contact Information

Website: <https://radow.kennesaw.edu/geoanth/programs/minor-geography.php>

Phone: (470) 578-2373

Email: geoanth@kennesaw.edu

Program Description

The Minor in Geography gives students the opportunity to obtain a geographic or spatial perspective on a variety of issues. Students who understand geography are capable of evaluating the complicated relationship between human communities and the natural environment. Three of geography's major themes are human-environmental interaction, regions of the world, and questions of location. Geographers analyze processes, systems, and behaviors that have spatial expression. Students will learn to apply their knowledge of patterns, distributions, allocations, and circulations towards solving problems in their chosen field of endeavor, be it in the public sector, private sector, or the academe.

Required Course (3 Credit Hours)

- GEOG 1101:Introduction to Human Geography
Or
- GEOG 1130:World Regional Geography

Any Four Upper-Division Geography Courses (12 Credit Hours)

Students may take any four courses with a GEOG prefix at the 3000- or 4000-level.

Program Total (15 Credit Hours)

German Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-german.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The minor in German Studies is a valuable complement to the academic portfolio of a student pursuing any major, who wishes to add an international dimension to their academic and professional profile. When you supplement your degree with a German Studies minor, you are increasing your professional marketability with a great number of international and domestic employers who have

connections to or value the German-speaking cultures. As a student in the German Studies minor, you have access to grant-supported study abroad experiences and diverse extracurricular offerings in the KSU German Studies program.

The minor in German Studies requires 15 hours of GRMN course work at the level of 2002 or above. These 15 hours must include GRMN 3200, GRMN 3302, and GRMN 3303. Advanced speakers should consult with a German advisor about testing options using the Advanced Standing examinations available in the Department of Foreign Languages.

Gerontology Minor

Contact Information

Website: <https://radow.kennesaw.edu/scj/programs/minor-gerontology.php>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

The multi-disciplinary field of gerontology deals with the sociology, psychology, and the physiology of aging. A key goal is to develop a more realistic perception of the aging process.

Required Courses (9 Credit Hours)

- SOCI 1101:Introduction to Sociology
- SOCI 3310:Introduction to Gerontology
- SOCI 3320:Exploring the Aging Network

Select two of the following (6 Credit Hours)

- HS 3700:Aging and the Family
- HS 3750:Death, Dying and Bereavement
- PSYC 3130:Psychology of Aging
- SOCI 4443:Medical Sociology

Program Total (15 Credit Hours)

History Minor

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/programs/minor-history.php>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

To earn a minor in History students must complete History 2206 (Origins of the Great Traditions) plus twelve (12) hours of History courses at the 3000 or 4000 level. Prerequisites for individual courses can be found in the course description section of the undergraduate catalog. At least twelve hours counted toward the minor must not duplicate hours counted toward the major.

Program Total (15 Credit Hours)

Interactive Design Minor

Contact Information

Website: <https://radow.kennesaw.edu/tcid/>

Phone: (470) 578-7202

Email: tcid@kennesaw.edu

Program Description

The Minor in Interactive Design introduces students to core skills used by interaction designers. Students majoring in other disciplines will acquire functional abilities with design-related tools, learn and apply principles of user interface design, be introduced to front-end development, and more that they can directly apply to their own majors, use to land jobs, and get ahead in their careers.

Required Courses (6 credit hours)

- IAD 2100:History and Fundamentals
- TCID 2002:Productivity Tools and Technologies

Electives (9 credit hours)

Select 9 credit hours from the following:

- IAD 3150:Visual Design I
- IAD 3230:User Interface Design I
- IAD 4150:Visual Design II
- IAD 4230:User Interface Design II
- TCID 3400:Front-End Development I
- TCID 3800:Front-End Development II

Program Total (15 Credit Hours)

International Affairs Minor

Contact Information

Website: <https://radow.kennesaw.edu/sgia/programs/minor-ia.php>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Program Description

The International Affairs Minor is designed to provide undergraduate students exposure to the analytical tools and substantive knowledge necessary to make sense of an increasingly complex global environment. The curriculum is flexible enough to engage a wide range of interests. Students can focus on particular geographic regions, including Africa, Asia, Latin America, Europe, and the Middle East. Alternatively, they can focus on substantive issues, such as development, security, or the politics of international economic relations.

Required Courses (6 Credit Hours)

- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations

Elective Courses (9 Credit Hours)

Three (3) elective courses must be selected from the list below. Students cannot have more than one elective in common with their major.

- POLS 3350:American Foreign Policy
- POLS 3850:Introduction to Nongovernmental Organizations and Development
- POLS 4100:Directed Applied Research
- POLS 4202:Politics of the U.S. Intelligence Community
- POLS 4430:International Law and Organization
- POLS 4431:Politics of International Terrorism
- POLS 4433:European Union Politics
- POLS 4436:Politics of Developing Areas
- POLS 4437:Global Security
- POLS 4439:Political Economy of Russia and Central Asia in Transition
- POLS 4440:Comparative Democratization
- POLS 4448:Russian Politics and Culture
- POLS 4449:Russian Foreign Policy
- POLS 4452:Politics of East Asia
- POLS 4453:Latin America: Democracy and Development
- POLS 4454:Politics of the Middle East
- POLS 4455:International Relations of Africa
- POLS 4456:International Environmental Policy

- POLS 4457:South Asian Politics: A Comparative Perspective
- POLS 4460:Politics of NATO
- POLS 4490:Special Topics in Political Science

Program Total (15 credit hours)

Italian Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-italian.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The Minor in Italian Studies requires 15 hours of ITAL coursework. ITAL 2001 and ITAL 2002 may be counted towards the minor; all remaining coursework must be at the upper-division level. Advanced speakers of Italian should consult with an Italian Studies advisor about testing options using the Advanced Standing examinations available in the Department of Foreign Languages.

A minimum of six (6) hours in the minor must be taken in residence at Kennesaw State University.

Required Courses (6 Credit Hours)

- ITAL 2001:Intermediate Italian Language and Culture I
- ITAL 2002:Intermediate Italian Language and Culture II

Electives (9 Credit Hours)

Select nine credit hours from the following Italian Courses:

- ITAL 3200:Critical Reading and Applied Writing
- ITAL 3302:Practical Conversation
- ITAL 3303:Grammar and Composition
- ITAL 3304:Literature and Culture I
- ITAL 3305:Literature and Culture II
- ITAL 3390:Upper-division Study Abroad in Italian
- ITAL 3398:Internship
- ITAL 4400:Directed Study
- ITAL 4402:Contemporary Culture
- ITAL 4404:Commercial Italian
- ITAL 4434:Topics in Language Literature and Culture
- ITAL 4456:Advanced Grammar and Linguistics
- ITAL 4490:Special Topics in Italian

Program Total (15 Credit Hours)

Japanese Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

A minor in Japanese aims to offer learner-centered courses consistent with the Department of Foreign Languages' dual emphasis on linguistic skill building and teaching content throughout the curriculum. Students need to complete 15 credit hours of Japanese, of which a minimum of six (6) must be taken in residence at KSU. Advanced speakers of Japanese should consult with the Japanese Program advisor about testing options using the Advanced Standing examinations available in the Department of Foreign Languages.

A native or near-native speaker of Japanese may:

1. take an Advanced Standing Exam for credit in lieu of JPN 2002, or
2. take 2 Elective Courses in lieu of JPN 2002 (the student would still have to take an additional Elective course to fulfill the Elective requirement).

Required Courses (12 Credit Hours)

Students will select four (4) courses from the following:

- JPN 2001:Intermediate Japanese Language and Culture I
- JPN 2002:Intermediate Japanese Language and Culture II
- JPN 3200:Critical Reading and Applied Writing
- JPN 3302:Practical Conversation
- JPN 3303:Grammar and Composition
- JPN 3304:Readings in Culture I

Elective Courses (3 Credit Hours)

Students will select one course from the following:

- ASIA 4400:Directed Study
- ASIA 4490:Special Topics for Asian Studies
- FL 4400:Directed Study
- ISD 3398:Interdisciplinary Studies Internship
- SA 4490:Upper-division Study Abroad

Program Total (15 Credit Hours)

Korean Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

A minor in Korean aims to offer learner-centered courses consistent with the Department of Foreign Languages' dual emphasis on linguistic skill building and teaching content throughout the curriculum. Students need to complete 15 credit hours of Korean, of which a minimum of six (6) must be taken in residence at KSU. Advanced speakers of Korean should consult with the Korean program advisor about testing options using the Advanced Standing Examinations available in the Department of Foreign Languages.

A native or near-native speaker of Korean may:

1. take an Advanced Standing Exam for credit in lieu of KOR 2002, or
2. take 2 Elective Courses in lieu of KOR 2002 (the student would still have to take an additional Elective course to fulfill the Elective requirement).

Required Courses (12 Credit Hours)

Students must select four (4) courses from the following:

- KOR 2001:Intermediate Korean Language and Culture I
- KOR 2002:Intermediate Korean Language and Culture II
- KOR 3200:Critical Reading and Applied Writing
- KOR 3302:Practical Conversation
- KOR 3303:Grammar and Composition
- KOR 3304:Readings in Culture I

Elective Courses (3 Credit Hours)

Students must select one course from the following:

- ASIA 4400:Directed Study
- ASIA 4490:Special Topics for Asian Studies
- FL 4400:Directed Study
- ISD 3398:Interdisciplinary Studies Internship
- SA 4490:Upper-division Study Abroad

Program Total (15 Credit Hours)

Language and Literary Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/english/programs/minor-lls.php>

Phone: (470) 578-7531

Email: ksuenglish@kennesaw.edu

Program Description

The minor in language and literary studies cultivates the skills of critical reading and analysis. Students gain proficiency in research as well as in written and oral communication. The minor fosters the crucial ability to understand the complexity of our world and to engage with language in sophisticated ways. These skills prepare students for numerous careers and effectively supplement existing majors in other fields.

Select four of the following (12 Credit Hours)

- LING 3020:Linguistics and Literature
- LING 3030:Studies in Grammar and Linguistics
- LING 3035:Introduction to Language and Linguistics
- LING 3040:History of the English Language
- ENGL 3230:Literary Genre
- ENGL 3232:Topics in Drama
- ENGL 3320:Scriptural Literature
- ENGL 3322:Hebrew Scriptures as Literature
- ENGL 3324:New Testament as Literature
- ENGL 3330:Gender Studies
- ENGL 3340:Ethnic Literatures
- ENGL 3342:Topics in Native American Literature
- ENGL 3350:Regional Literature
- ENGL 3360:Major African American Writers
- ENGL 3400:Survey of African Literatures
- ENGL 3500:Topics in African American Literature
- ENGL 3600:Topics in African Diaspora Literatures
- ENGL 4220:Critical Theory
- ENGL 4230:Theory-Based Studies in Literature
- ENGL 4340:Shakespeare
- ENGL 4360:American Literature Before 1800
- ENGL 4370:Medieval Literature
- ENGL 4372:British Renaissance Literature
- ENGL 4374:Restoration and Eighteenth-Century Literature
- ENGL 4380:World Literature Before 1800
- ENGL 4401:Topics in African Literatures
- ENGL 4460:19th-Century American Literature

- ENGL 4470:19th-Century British Literature
- ENGL 4480:19th-Century World Literature
- ENGL 4560:20th-Century and 21st-Century American Literature
- ENGL 4570:20th-Century and 21st-Century British Literature
- ENGL 4580:20th-Century and 21st-Century World Literature

Note: Because all minors require fifteen hours, a fifth course will be selected from the student's Area F requirements in consultation with the advisor for the minor.

Program Total (15 Credit Hours)

Latin American and Latinx Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-lals.php>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Minor in Latin American and Latinx Studies provides a solid foundation for understanding contemporary Latin American society and Latinx communities more broadly. To achieve this goal, this minor offers a range of courses that examine the history, politics, economics, culture, and languages of the Latin American region. The program also emphasizes community engagement and study abroad experiences. The minor is especially useful to undergraduates who wish to deepen their understanding of Latin America as well as Latinx peoples residing in the United States.

Required Course (3 Credit Hours)

- LALS 3780:Trends in Latin American/Latino Studies

Select four of the following (12 Credit Hours)

- ANTH 3380:Maya Archaeology
- ANTH 3365:Afro-Brazilian Culture and Politics
- ARH 3250:Latin American Art and Architecture
- GEOG 3370:Geography of Latin America and the Caribbean
- HIST 3358:Africans in Latin America and the Caribbean
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- ISD 3333:Year of _____ in Interdisciplinary Context I
- ISD 3334:Year of _____ in Interdisciplinary Context II
- ISD 3398:Interdisciplinary Studies Internship
- LALS 3550:U.S. Latinx Communities
- LALS 3770:Latin American Cinema

- LALS 4490:Special Topics in Latin American/Latino Studies
- PHIL 3210:Latin American and Caribbean Philosophy
- POLS 4436:Politics of Developing Areas
- POLS 4453:Latin America: Democracy and Development
- PORT 3304:Introduction to Lusophone Literatures and Cultures
- SA 4400:Study Abroad Directed Study
- SA 4490:Upper-division Study Abroad
- SPAN 3304:Literature and Culture I
- SPAN 3305:Literature and Culture II
- SPAN 3398:Internship

Program Total (15 Credit Hours)

Leadership Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/programs/leadership-studies/>

Phone: (470) 578-6124

Email: ldrs@kennesaw.edu

Program Description

The Leadership Studies Minor is a unique and distinctive minor that offers learners a rigorous and robust exploration of the leadership studies discipline. This is a 15 credit hour minor that complements a wide array of major areas of study offered at Kennesaw State University. Learners must begin their course of study with LDRS 3000 Foundations of Leadership: History, Theory, and Application and can take the remaining required courses in any sequence. The minor has an integrative focus and incorporates an approach to learning that explores leadership across disciplines.

Required Courses (15 Credit Hours)

- LDRS 3000:Foundations of Leadership: History, Theory, and Application
- LDRS 3201:Leadership and Multiculturalism
- LDRS 3401:Research and Inquiry in Leadership
- LDRS 3600:Ethics In Leadership
- LDRS 3700:Leadership and Gender

Program Total (15 Credit Hours)

Legal Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/sgia/>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Required Course (3 Credit Hours)

- POLS 3300:U.S. Constitution and Courts

Select four of the following (12 Credit Hours)

- BLAW 3400:Negotiation
- BLAW 4100:Advanced Business Law
- JOUR 4470:Media Law
- POLS 3315:American Constitutional Law: Federalism
- POLS 3320:Legal Research
- POLS 4405:Comparative Legal Systems
- POLS 4410:American Legal System
- POLS 4411:Criminal Law
- POLS 4415:Civil Liberties
- POLS 4416:Law and Gender
- POLS 4420:Judicial Process
- POLS 4466:Trial Procedure and Evidence
- POLS 4470:Alternative Dispute Resolution

Program Total (15 Credit Hours)

Linguistics Minor

Contact Information

Website: <https://radow.kennesaw.edu/english/programs/minor-ling.php>

Phone: (470) 578-6297

Email: ksuenglish@kennesaw.edu

Program Description

The minor in linguistics deepens students' understanding of the nature of language. Linguistics addresses two fundamental questions: What is language? And how does it work? Courses in the minor explore issues such as language history, structure, and acquisition; dialects; literary language; and the relationship between language and society. The minor would be useful to students who want

to pursue careers in fields such as teaching, advertising, communications, computer applications, literature, law, government, and non-profit work.

Select four of the following (12 Credit Hours)

- ANTH 3303:Introduction to Linguistic Anthropology
- FL 2209:World Languages and Cultures
- FLED 4408:Second Language Acquisition
- FREN 4456:Advanced Grammar and Linguistics
- GRMN 4456:Advanced Grammar and Linguistics
- INED 4430:Applied Linguistics and English Language Literacy
- ITAL 4456:Advanced Grammar and Linguistics
- LING 3020:Linguistics and Literature
- LING 3025:Linguistics for Education
- LING 3030:Studies in Grammar and Linguistics
- LING 3035:Introduction to Language and Linguistics
- LING 3040:History of the English Language
- LING 3045:Grammar of Contemporary American English
- LING 3050:Sociolinguistics
- LING 3055:Politics and Language
- LING 3760:World Englishes
- SPAN 4456:Advanced Grammar and Linguistics

Note: A fifth course will be selected from the student's Area F requirements in consultation with the advisor for the professional writing minor.

Program Total (15 Credit Hours)

Lusophone Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-portuguese.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

This cross-disciplinary program offers opportunities to learn Portuguese as a world language while bringing the world right to you! From literature and listening to one-on-one contact with your professors, the Minor in Lusophone Studies brings the Portuguese-speaking world to life!

The Portuguese Program offers courses in Lusophone (Portuguese-Speaking) Language, Cultures, and Literatures, as well as a Minor in Lusophone Studies which incorporates courses in Foreign Languages, History, Anthropology, and the possibility of Study Abroad experiences.

The Minor in Lusophone Studies consists of 15 credit hours of coursework in Portuguese Language and Lusophone cultures, literature, and history. ***A minimum of six (6) credit hours must be taken in residence at Kennesaw State University***

Required Courses (9 Credit Hours)

Students must take the following courses or equivalents:

- PORT 2002:Intermediate Portuguese Language and Lusophone Cultures II
- PORT 3200:Advanced Reading and Writing in Portuguese
- PORT 3304:Introduction to Lusophone Literatures and Cultures

Elective Courses (6 Credit Hours)

In addition, students will need to complete at least two (2) courses from the following options, with exception to student who has passes the Advanced Standing Exam and/or is exempt from PORT 2002. Those students will need to complete three (3) courses from the following options:

- ANTH 3365:Afro-Brazilian Culture and Politics
- FL 4400:Directed Study
note: Directed Study must be related to Portuguese/Lusophone language, literature, and/or cultures. Please see the Coordinator of Portuguese about this option.
- HIST 3367:History of Brazil
- PORT 3302:Conversation in Portuguese
- SA 4490:Upper-division Study Abroad
note: Study Abroad must be to a Portuguese-speaking country of region

Program Total (15 Credit Hours)

Medical Sociology Minor

Contact Information

Website: <https://radow.kennesaw.edu/scj/programs/minor-medical-sociology.php>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

Health care is a growing sector of the economy and programs at the governmental, private, and international level are expanding to meet the needs of an increasingly elderly, disabled, and chronically ill population. Medical sociology is a specialty area within sociology concerned with the social dimensions of health, illness, and health care. After completing the medical sociology minor, students should be able to critically examine approaches used to prevent health problems and evaluate their relative merits.

Required Courses (6 Credit Hours)

- SOCI 1101:Introduction to Sociology
- SOCI 3380:Society, Community, & Health
or
- SOCI 4443:Medical Sociology

Elective Courses (9 Credit Hours)

Select three of the following:

- SOCI 3310:Introduction to Gerontology
- SOCI 3320:Exploring the Aging Network
- SOCI 3344:Biotechnology and Social Change
- SOCI 3360:Sociology of Violence
- SOCI 3380:Society, Community, & Health (If not taken as a required course)
- SOCI 4200:Drugs, Alcohol, and Society
- SOCI 4400:Directed Study in Sociology (Topic must be relevant to Medical Sociology)
- SOCI 4443:Medical Sociology (If not taken as a required course)
- SOCI 4445:Sociology of Mental Illness
- SOCI 4490:Special Topics in Sociology (Topic must be relevant to Medical Sociology)

Program Total (15 Credit Hours)

Military Leadership Minor

Contact Information

Website: <https://radow.kennesaw.edu/sgia/index.php>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Program Description

The Military Leadership Minor challenges cadets to study and practice adaptive leadership skills as they are presented with challenging scenarios related to garrison and tactical operations. The challenges increase throughout the minor courses to build cadet awareness and skills leading tactical operations up to a platoon level. They also conduct various styles of briefings to small and large audiences. The focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in Contemporary Operating Environments (COE). The upper-level courses develop individual proficiency in planning, executing, and assessing complex operations; functioning as a member of a staff and providing performance feedback to subordinates. Cadets assess risk, determine ethical decision making, evaluate and instruct cadets at lower levels. Furthermore, cadets will examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. The minor is designed to prepare

cadets for their first assignment with case studies, scenarios, and exercises emphasized on practical demands of leading as commissioned officers in the United States Army.

Required Courses (16 Credit Hours)

The following courses must be completed in sequential order:

- MILS 3011:Adaptive Tactical Leadership
- MILS 3012:Leadership Change Environment
- MILS 4011:Developing Adaptive Leadership
- MILS 4012:Leaders Complex World

Program Total (16 Credit Hours)

Native American and Indigenous Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-nais.php>

Phone: 470-578-2431

Email: isd@kennesaw.edu

Program Description

The minor in Native American and Indigenous Studies promotes understanding of Indigenous cultures, histories, and contemporary issues. The program provides an interdisciplinary foundation that also allows students to focus their studies within a specific discipline. Balancing a regional focus on the Native South with a national and global overview of Indigenous cultures, the program includes a range of courses that demonstrate the continued importance of Indigenous perspectives in the United States and the world.

Required (6 Credit Hours)

- AMST 3730:Introduction to Native American Studies
- ANTH 3321:Indigenous Peoples of North America

Electives (9 Credit Hours)

Select three of the following:

- AMST 3700:American Studies: Principles and Methods
- AMST 3720:America and Empire
- AMST 3750:Place in American Culture (if related to Native American and Indigenous Studies)
- AMST 3760:Advanced Studies in American Identities (if related to Native American and Indigenous Studies)

- AMST 4490:Special Topics in American Studies (if related to Native American and Indigenous Studies)
- ANTH 3315:Indigenous Peoples of the Southeast United States
- ANTH 4100:Directed Applied Research (if related to Native American and Indigenous Studies)
- ANTH 4421:North American Archaeology
- ANTH 4490:Special Topics in Anthropology (if related to Native American and Indigenous Studies)
- ENGL 3342:Topics in Native American Literature
- ENGL 3350:Regional Literature (if related to Native American and Indigenous Studies)
- GWST 3090:Transnational Feminisms
- GWST 3100:Gender and the US South (if related to Native American and Indigenous Studies)
- HIST 3366:History of Mexico and Central America
- HIST 3367:History of Brazil
- HIST 4204:The History of the American West
- HIST 4410:Colonial America to 1763
- HIST 4905:History of the Atlantic World
- LALS 1102:Understanding Latin America

Program Total (15 Credit Hours)

Organizational & Professional Communication Minor

Contact Information

Website: <https://radow.kennesaw.edu/socm/programs/bsopc.php>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Program Description

The Organizational & Professional Communication minor offers students specialized coursework in effective communication skills specific to traditional corporate workplaces, nonprofit organizations, and emerging organizational groups such as grassroots efforts and civic groups in a multi-cultural, global environment. The minor gives focused attention to interpersonal, intercultural, and/or team communication, project coordination, and leadership communication as well as training and development expertise. Emphasizing experiential and hands-on application of communication theories and practices, the minor supports student efforts to learn successful communication strategies for today's changing marketplace.

Program of Study

Required Course (3 Credit Hours)

- ORGC 3025:Introduction to Organizational & Professional Communication

Lower Division Elective. (3 Credit Hours)

Select one of the following for three credit hours:

- BLAW 2200:Legal and Ethical Environment of Business
- COM 2129:Public Speaking
- COM 2033:Visual Communication

Upper Division Electives (9 Credit Hours)

Select three of the following for a total of nine credit hours:

- ORGC 3325:Intercultural Communication
- ORGC 3345:Team Communication
- ORGC 3376:Interpersonal Communication
- ORGC 3459:Communication and Conflict
- ORGC 4344:Training and Development
- ORGC 4440:Leadership Communication
- ORGC 4470:Topics in Organizational & Professional Communication

Program Total (15 Credit Hours)

Peace Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-peace-studies.php>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Peace Studies Minor serves students who wish to pursue a life dedicated to a more just and peaceful world. This interdisciplinary program prepares students for careers in a wide range of professions, including those in human relations, veteran affairs, patient care, academic services, child services, government and law, nonprofit organizations with community- and regionally-focused objectives, and non-governmental organizations dedicated to transforming international conflict. The minor also helps students prepare for advanced studies in political science, international relations, conflict management, public administration, and a host of other subjects.

The Peace Studies Minor program consists of five courses (two required and three elective) of undergraduate study across the disciplines. The five courses may be taken in any order, and the capstone is optional. A minimum of six hours in the minor must be taken in residence at Kennesaw State University.

Required Courses (6 Credit Hours)

- PAX 3600:Theories of Non-violence
- PAX 4000:Peacebuilding Methods

Elective Courses (9 Credit Hours)

Select three (3) courses from the following:

- ORGC 3325:Intercultural Communication
- GWST 3070:Gender and Social Justice
- PAX 3300:Peace and the Environment
- PAX 3100:Peace and Religion
- PAX 3220:Peace and Film
- PAX 3780:Trends in Peace Studies
- PAX 4400:Directed Study in Peace Studies
- PAX 4490:Special Topics in Peace Studies
- PAX 4499:Seminar in Peace Studies
- SOCI 3360:Sociology of Violence
- MUSI 3316:Music and the Holocaust
- PHIL 3120:Philosophies of Peace
- PHIL 3100:Ethics
- BIOL 4486:Bioethics

Program Total (15 Credit Hours)

Philosophy Minor

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/index.php>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

Students may earn a minor in Philosophy by completed fifteen (15) hours as described below. At least twelve hours counted toward the minor must not duplicate hours counted toward the major.

Select two of the following (6 Credit Hours)

- PHIL 3000:Ancient and Medieval Philosophy
- PHIL 3010:Modern Western Philosophy
- Any 3000-level Non-Western Philosophy course

For the remaining 9 credit hours, students may select from any of the following courses:

- PHIL 2110:Religions of the World
- PHIL 2500:Logic
- Any 3000 or 4000-level Philosophy course.

Program Total (15 Credit Hours)

Political Science Minor

Contact Information

Website: <https://radow.kennesaw.edu/sgia/programs/minor-ps.php>

Phone: (470) 578-6227

Email: sgia@kennesaw.edu

Program Description

This is a minor in political science requiring one lower division political science course, one upper division course in American politics, policy, or legal system, and one upper division course in international affairs. In addition, students will complete 6 credit hours of elective upper division political science courses.

Lower Division Requirements

Students complete 3 (three) credits from the following courses:

- POLS 2212:State and Local Government
- POLS 2240:Introduction to Comparative Politics
- POLS 2250:Introduction to International Relations
- POLS 2260:Current Political Issues
- POLS 2270:Political Ideologies
- POLS 2280:Research Methods

Upper Division Requirements: American Politics, Policy, and Legal Studies

Students complete 3 (three) credits from the following options:

- POLS 3300:U.S. Constitution and Courts
- POLS 3310:Foundations of Public Policy
- POLS 3313:Public Policy Analysis
- POLS 3315:American Constitutional Law: Federalism
- POLS 3320:Legal Research
- POLS 3328:African American Politics
- POLS 3340:Legal Analysis
- POLS 3343:Principles of Public Administration

- POLS 3356:U.S. Environmental Policy & Politics
- POLS 3360:The United States Congress
- POLS 3370:The United States Presidency
- POLS 3380:Mass Media and Politics
- POLS 3385:Campaigns and Elections
- POLS 3388:Lobbying and Interest Groups
- POLS 3390:Political Research On-Line
- POLS 3394:Public Polling and Survey Techniques
- POLS 4200:Homeland Security Administration
- POLS 4280:Advanced Research Methods and Data Analysis
- POLS 4402:Political Parties
- POLS 4405:Comparative Legal Systems
- POLS 4410:American Legal System
- POLS 4411:Criminal Law
- POLS 4412:Urban Affairs and Problems
- POLS 4415:Civil Liberties
- POLS 4416:Law and Gender
- POLS 4420:Judicial Process
- POLS 4423:Great Political Thinkers
- POLS 4427:American Political Thought
- POLS 4428:Race, Gender, and the Politics of Difference
- POLS 4429:Legal Theory & Philosophy
- POLS 4444:Administrative Practices and Organization
- POLS 4446:Governmental Budgeting

Upper Division Requirements: International Affairs

Students complete 3 (three) credits from the following options:

- POLS 4430:International Law and Organization
- POLS 4431:Politics of International Terrorism
- POLS 4433:European Union Politics
- POLS 4435:Comparative Foreign Policy
- POLS 4436:Politics of Developing Areas
- POLS 4437:Global Security
- POLS 4438:International Political Economy
- POLS 4439:Political Economy of Russia and Central Asia in Transition
- POLS 4440:Comparative Democratization
- POLS 4449:Russian Foreign Policy
- POLS 4450:Canada & North America
- POLS 4451:Politics and Government in Post-Communist Europe
- POLS 4452:Politics of East Asia
- POLS 4453:Latin America: Democracy and Development
- POLS 4454:Politics of the Middle East
- POLS 4455:International Relations of Africa
- POLS 4456:International Environmental Policy

- POLS 4457:South Asian Politics: A Comparative Perspective

Electives

Complete any 6 (six) credit hours in 3000-4000 level POLS courses.

Program Total (15 Credit Hours)

Professional Writing Minor

Contact Information

Website: <https://radow.kennesaw.edu/english/programs/minor-pw.php>

Phone: (470) 578-7531

Email: ksuenglish@kennesaw.edu

Program Description

The minor in professional writing prepares students to be critical thinkers, careful researchers, and creative and capable writers who are able to respond effectively to contemporary writing tasks and opportunities. Students receive advanced instruction in rhetoric, editing, technologies of writing, workshop critique, and the production of workplace, academic, and creative texts. The minor provides a credential in writing, which is a desirable supplement to a variety of undergraduate majors.

Select four of the following (12 Credit Hours)

- LING 3760:World Englishes
- FILM 3105:Introduction to Screenwriting
- FILM 3125:Introduction to TV Writing
- FILM 4105:Advanced Screenwriting
- FILM 4125:Advanced TV Writing
- WRIT 3000:Introduction to Creative Writing Genres
- WRIT 3100:Poetry Writing
- WRIT 3109:Careers in Writing
- WRIT 3110:Playwriting
- WRIT 3111:Professional Editing
- WRIT 3120:Fiction Writing
- WRIT 3125:Interactive Narrative & Games
- WRIT 3130:Literary Nonfiction
- WRIT 3140:Writing in the Workplace
- WRIT 3150:Topics in Digital Rhetoric
- WRIT 3151:Digital Storytelling
- WRIT 3152:Digital Community Engagement
- WRIT 3160:Argumentative Writing
- WRIT 3170:Environmental Writing and Literature
- WRIT 3210:Graphic Storytelling

- WRIT 3810:Research Methods for Writers
- WRIT 3650:Introduction to Literacy Studies
- Any 4000-level WRIT course

Note: A fifth course will be selected from the student's Area F requirements in consultation with the advisor for the professional writing minor.

Program Total (15 Credit Hours)

Psychology Minor

Contact Information

Website: <https://radow.kennesaw.edu/psychscience/programs/minor-psychology.php>

Phone: (470) 578-6225

Program Description

The psychology minor is open to all undergraduate students. Students gain a basic understanding and awareness of behavior through a curriculum that emphasizes psychology as a science. By exploring individual areas of interest in psychology through a variety of courses, students learn information that will complement knowledge acquired through their major.

Note: Students using PSYC 1101 for the psychology minor may not use it to fulfill Area E of the General Education Core Curriculum Requirements .

Lower-Level Required Foundational Courses (6 Credit Hours)

- PSYC 1101:Introduction to General Psychology ^{*Must be used in the minor. May not be used to fulfill General Education Requirements.}
- PSYC 2000:The Science of Psychology ^{**May not be used as a substitute for PSYC 2500}

Upper-Level Psychology Courses (9 Credit Hours)

Choose three courses:

- PSYC 3010:Educational Psychology
- PSYC 3130:Psychology of Aging
- PSYC 3205:Psychology of Child Development
- PSYC 3273:Forensic Psychology
- PSYC 3310:Psychopharmacology
- PSYC 3315:Psychology of Infant Development
- PSYC 3320:Leadership and Group Dynamics
- PSYC 3340:The Psychology of Family Interaction: A Developmental Perspective
- PSYC 3355:Cross-Cultural Psychology
- PSYC 3365:Human Sexuality

- PSYC 3370:Industrial-Organizational Psychology
- PSYC 3375:Psychology of Career Development
- PSYC 3385:Ethnic Minority Psychology
- PSYC 3395:Psychology of Prejudice and Privilege
- PSYC 3410:Health Psychology
- PSYC 3425:Psychology of Gender
- PSYC 3505:The Psychology of the Emerging Adult: Late Adolescence through Early Adulthood
- PSYC 3510:Psychoneuroimmunology: Mind Body Pathways
- PSYC 3775:The Psychology of Religion: An Empirical Approach
- PSYC 4420:Ethics and Professional Issues in Applied Psychology
- PSYC 4430:Abnormal Psychology
- PSYC 4440:Clinical and Counseling Psychology: Science and Practice
- PSYC 4460:Child Psychopathology
- PSYC 4475:Psychology of Workplace Motivation and Leadership
- PSYC 4490:Special Topics in Psychology

Program Total (15 Credit Hours)

Public History Minor

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

A minor in public history prepares students to think critically about the public presentation of history and culture and helps students develop tangible skills that will enable them to pursue graduate study in a number of fields as well as professional or avocational work at historic and cultural sites. Classroom and fieldwork combine to deliver both theoretical understanding of memory and history and practical experience in historic preservation, community documentation, museums, and cultural program development.

Required Courses (6 Credit Hours)

- HIST 3325:Introduction to Public History
- HIST 3398:Internship

Electives (12 Credit Hours)

Select four courses from the following:

- ANTH 4425:Historical Archaeology

- HIST 4426:Documentation and Interpretation of Historic Sites
- HIST 4490:Special Topics in History
- HIST 3326:Historic Preservation
- HIST 3327:Architectural History
- HIST 3328:Introduction to Archives and Records Management
- HIST 4424:Museum Education
- HIST 4425:Oral History
- HIST 4427:Museum Exhibitions
Course may be repeated once for credit with approval of instructor
- HIST 4430:Museum Studies
- HIST 4435:History and Memory
- HS 4100:Grant Writing and Fundraising
- HIST 3398:Internship
Internship may be repeated once for credit with approval of instructor

Program Total (18 Credit Hours)

Public Relations Minor

Contact Information

Website: <https://radow.kennesaw.edu/socm/>

Phone: (470) 578-6298

Email: socm@kennesaw.edu

Required Courses (12 Credit Hours)

- PR 3335:Public Relations Principles
- PR 3355:Public Relations Cases
- PR 3429:Persuasion Methods and Strategies
- PR 4460:Crisis Communication

Elective Courses (3 Credit Hours)

Choose one of the following:

- PR 4415:Topics in Public Relations
- PR 4210:Social Media for Strategic Communication

Program Total (15 Credit Hours)

Religious Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/isd/programs/minor-religious-studies.php>

Phone: (470) 578-2431

Email: isd@kennesaw.edu

Program Description

The Religious Studies Minor program consists of fifteen (15) credit hours (five courses) of undergraduate study across traditional disciplines. A minimum of six (6) hours in the minor must be taken in residence at Kennesaw State University.

Required Courses (6 Credit Hours)

Select two from the following:

- ANTH 3340:Religion, Magic, and Culture
- HIST 2206:Origins of Great Traditions
- RELS 3200:Religion and Gender
- SOCI 3334:Religion and Society

Electives (9 Credit Hours)

Select three courses from the following:

- ARH 3150:Islamic Art and Architecture
- ENGL 3320:Scriptural Literature
- ENGL 3322:Hebrew Scriptures as Literature
- ENGL 3324:New Testament as Literature
- HIST 3331:History of Religion in the U.S.
- HIST 4442:History of Religious Tolerance
- ISD 3398:Interdisciplinary Studies Internship
- PAX 3100:Peace and Religion
- PHIL 2110:Religions of the World
- PHIL 3200:Asian Philosophy
- PSYC 3775:The Psychology of Religion: An Empirical Approach
- RELS 3300:Ethical Issues in Religion
- RELS 3500:Religion and Popular Culture
- RELS 3780:Trends in Religious Studies
- RELS 4400:Directed Study
- RELS 4490:Special Topics in Religious Studies
- Any course from the list of required courses, if not taken as a requirement.
- Any upper division course, including study abroad, deemed appropriate by the Religious Studies Coordinator.

Program Total (15 Credit Hours)

Slavic, East European, and Eurasian Studies Minor

Contact Information

Website: <https://radow.kennesaw.edu/historyphilosophy/programs/minor-seees.php>

Phone: (470) 578-6294

Email: histphildept@kennesaw.edu

Program Description

The minor in Slavic, East European, and Asian Studies allows students to study the culture, politics, and history of one of the most significant world regions. Although students in any major will benefit from completing this minor, students in history, international affairs, political science, philosophy, economics, and business will gain knowledge in an area vital to our national interests that advances their career opportunities. At least twelve hours counted toward the minor must not duplicate hours counted toward the major.

Required Courses (9 Credit Hours)

- HIST 3379:Central Asia in World History
- HIST 4655:Russia Since 1861
- POLS 4451:Politics and Government in Post-Communist Europe

6 Credit Hours from the following:

- ARH 3150:Islamic Art and Architecture
- HIST 4654:Russia to 1861
- HIST 3361:Themes in Slavic and Eastern European Studies
- HIST 3375:Silk Road
- PHIL 2110:Religions of the World
- POLS 4431:Politics of International Terrorism
- Any directed studies course offered at KSU with content appropriate to Slavic, Eastern European, and Eurasian Studies
- Any 3000-4000 level course offered at KSU with content appropriate to Slavic, Eastern European, and Eurasian Studies
- Any 3000-4000 level study abroad course offered at KSU with content appropriate to Slavic, Eastern European, and Eurasian Studies

Program Total (15 Credit Hours)

Sociology Minor

Contact Information

Website: <https://radow.kennesaw.edu/scj/>

Phone: (470) 578-6739

Email: scjdeptksu@kennesaw.edu

Program Description

In a society dramatically reshaped by evolving social and technological forces, there is a need for a greater socio-cultural understanding. The Sociology minor provides students majoring in other disciplines with the knowledge and skills necessary to succeed in a radically changing and diverse interpersonal environment. It offers students the opportunity to fit information from their disciplines within a larger social framework.

Required Course (3 Credit Hours)

- SOCI 1101:Introduction to Sociology

Select one of the following (3 Credit Hours)

- SOCI 3300:Foundations of Social Theory
- SOCI 3314:Race and Ethnicity
- SOCI 3354:Social Class and Mobility
- SOCI 3305:Research Methods in Sociology
- SOCI 3350:Intersections of Race, Class, and Gender

Select three of the following (9 Credit Hours)

Select any three upper division (3000/4000) SOCI courses including the remaining four not chosen above.

Program Total (15 Credit Hours)

Spanish Minor

Contact Information

Website: <https://radow.kennesaw.edu/foreignlanguages/programs/minor-spanish.php>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The minor in Spanish requires 15 hours of SPAN course work at the level of 2002 or above. These 15 hours must include SPAN 3200, SPAN 3302, and SPAN 3303. Advanced speakers should consult with a Spanish advisor about testing options using the Advanced Standing examinations available in the Department of Foreign Languages.

Program Total (15 credit hours)

Technical Communication Minor

Contact Information

Website: <https://radow.kennesaw.edu/tcid/programs/tcomminor.php>

Phone: (470) 578-7202

Email: tcid@kennesaw.edu

Requirements (3 Credit Hours)

- TCOM 2010:Technical Writing

Additional Courses for Minor (12 Credit Hours)

Select four courses from the following; three of them must be at the 3000 or 4000 level:

- TCID 2002:Productivity Tools and Technologies
- TCID 3400:Front-End Development I
- TCID 3800:Front-End Development II
- TCOM 2030:Research in Technical Communication
- TCOM 2050:Issues in Digital Accessibility
- TCOM 3011:Technical Writing II
- TCOM 3020:Grants and Proposals
- TCOM 3030:Instructional Design
- TCOM 3070:User Assistance
- TCOM 3130:Technical Communication: Theory, Ethics, and Practice
- TCOM 3145:Social Media Infrastructure
- TCOM 3245:Search Engine Optimization and Analytics
- TCOM 4000:Technical Editing
- TCOM 4045:Multi-Media for Technical Communicators
- TCOM 4050:Instructional Video
- TCOM 4120:Usability
- TCOM 3431:Information Design I
- TCOM 4431:Information Design II

Program Total (15 Credit Hours)

Non-Degree

Alternative Teacher Preparation

Contact Information

Website: <https://chss.kennesaw.edu/foreignlanguages/>

Phone: (470) 578-6366

Email: deptfl@kennesaw.edu

Program Description

The Alternative Teacher Preparation (ATP) Program in Foreign Languages is a non-degree undergraduate program leading to P-12 teacher certification in Chinese, French, German, Italian, Japanese, Korean, Latin, Portuguese, or Spanish. It is open to foreign language teachers who are not fully certified but are employed and wish to obtain a State of Georgia Induction Certificate. Upon admission, candidates receive an individualized certification plan. *Please refer to the ATP Policies and Procedures for complete program details.*

Admissions Requirements

1. Full-time employment as a foreign language teacher in a public or private SACS-accredited school in Georgia.
2. Sufficient time to complete the program of study before the temporary certificate expires. (This may require an extension of the certificate)
3. Letter by the principal of the candidate's school to verify employment and to request that KSU work with the teacher/candidate to complete the requirements towards the Induction Certificate.
4. Admission to KSU as an undergraduate non-degree student for Fall semester in the year you wish to be accepted.
5. Completed "Program Entry" Georgia Educator Ethics Exam.
6. Completed ATP application.
7. Official transcripts of all university courses.
8. Official professional development transcripts of all courses taken.
9. Copies of test score reports (GACE Basic Skills, GACE Content), if taken.
10. A copy of the ACTFL Oral Proficiency Interview (OPI) certificate, if taken. For Chinese and Japanese, the ACTFL Writing Proficiency Exam (WPT) is also required for a recommendation for certification. It does not apply to Latin.
11. Admission interview.
12. Hand-written essay in the non-native language completed during on-campus interview.

Application Deadline and Schedule:

Students who wish to apply for the Alternative Teacher Preparation (ATP) program must meet the required deadline.

Fall 2017 applicants: May 1, 2016 - Date admission requirements must be received.

Articulation through Sequenced Coursework:

- Successful completion of FLED 4408, FLED 4410, FLED 4412, and FLED 4414 are prerequisites to enrollment in FLED 4670 and FLED 4671.
- Successful completion of FLED 4670 and FLED 4671 are prerequisites to enrollment in FLED 4680 and FLED 4681.

Program Retention:

The prerequisites for program continuation comprise a good academic standing with a GPA of 2.75 or higher and no more than one "D" or "F" grade earned in required lower and upper division courses in the teacher education program.

Program Completion:

To earn a State of Georgia Induction Certificate:

- Earn an official ACTFL OPI rating of Advanced Low or higher in Type I languages and Intermediate High or higher in Type II languages (Latin is not included).
- Pass the GACE Basic Skills Assessment.
- Pass the GACE Content Assessment for French, German, Latin, or Spanish; or ACTFL WPT for other languages.
- Pass the Georgia Educator Ethics Assessment.
- Pass the edTPA content pedagogy assessment.

Southern Polytechnic College of Engineering and Engineering Technology

Baccalaureate

Civil Engineering, BSCVE

Contact Information

Website: <https://engineering.kennesaw.edu/civil-construction/degrees/bs-civil-engineering.php>

Phone: (470) 578-5076

Email: cce@kennesaw.edu

Program Description

Civil engineering is the oldest of the engineering disciplines and involves the planning, design, and construction of facilities essential to modern life.

Graduates can look forward to employment by construction companies; city and county engineering departments; state and federal transportation organizations (such as the Georgia Department of Transportation); and civil engineering consulting and design firms. Graduates have the qualifications to enter careers in areas such as, but not limited to, transportation engineering, structural engineering, environmental engineering, geotechnical engineering, water resource engineering, and construction engineering. Typical job titles for graduates may include construction engineer, project engineer, planner, project supervisor, consulting engineer, and design engineer.

Civil Engineering requires rigorous training in basic engineering principles along with the development of skills in the areas of planning and management of construction projects and the associated systems and resources. Graduates in the area of Civil Engineering will be required to master technical elements and to demonstrate particular competence in the areas of communication, fiscal management, and project control. The broad-based background is tailored to develop professionals who will be able to move between the technical and managerial aspects of civil engineering projects and to serve in key leadership positions within the engineering profession.

The first two years of each undergraduate engineering program's curriculum are considered to be lower division while the remaining two years are considered the upper division. For the most part, upper division engineering courses are those with course numbers in the 3000's and 4000's. In addition to the stated prerequisites and unless otherwise noted in the catalog, students must apply for and be granted Engineering Standing in order to enroll in any upper division engineering course taught in the School of Engineering. (Note: Courses requiring Engineering Standing will include in their list of prerequisites "Test ENGR with a minimum score of Y" or "Engineering Standing" or words to that affect.)

All students enrolled prior to Fall 2014 semester who are majoring in Engineering or Engineering Technology are automatically granted Engineering Standing.

Engineering Standing Requirements

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

- Area D2: (PHYS 2211 and PHYS 2211L) and (PHYS 2212 and PPHYS 2212L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ENGR 2214:Engineering Mechanics - Statics
 - SURV 2221:Surveying I
 - SURV 2221L:Surveying I Lab
 - CHEM 1211:Principles of Chemistry I
 - CHEM 1211L:Principles of Chemistry Laboratory I
 - CHEM 1212:Principles of Chemistry II
 - CHEM 1212L:Principles of Chemistry Laboratory II
- One Credit Hour from Area A Two Credit Hours from Area D

Major Requirements (58 Credit Hours)

- MATH 2306:Ordinary Differential Equations
- ENVS 2202 - Introduction to Environmental Science (eCore)* or
- BIOL 1107:Biological Principles I
- EDG 2160:Civil Graphics and Computer Aided Drafting
- ENGR 3131:Strength of Materials
- ENGR 3132:Strength of Materials Lab
- ENGR 3305:Data Collection and Analysis in Engineering
- ENGR 3324:Project Cost Analysis
- ENGR 3343:Fluid Mechanics
- ENGR 3345:Fluid Mechanics Laboratory
- CE 1000:Orientation to Engineering and Surveying Professions
- CE 2003:Engineering Problem Solving
- CE 3201:Structural Analysis
- CE 3202:Design of Concrete Structures
- CE 3501:Materials for Civil & Construction Engineering
- CE 3502:Materials for Civil & Construction Engineering Lab
- CE 3701:Geotechnical Engineering
- CE 3708:Geotechnical Engineering Lab
- CE 3702:Introduction to Environmental Engineering
- CE 3704:Introduction to Environmental Engineering Laboratory
- CE 4177:Transportation Engineering
- CE 4179:Transportation Engineering Lab
- CE 4703:Engineering Hydrology
- CE 4800:Senior Project
- SURV 4470:Land Development Design

Upper Division Elective Courses (12 Credit Hours)

Select two courses from Civil Engineering Discipline Groups (CEDG) 1 to 3, but not more than one from each CEDG 1 to 3. The remaining two courses may be selected from ANY CEDG 1 to 4.

CEDG 1- Environmental Engineering

- CE 3703:Environmental Engineering Design
- CE 4343:Solid Waste Engineering
- CE 4353:Air Pollution Control
- CE 4708:Hazardous Waste Engineering

CEDG 2- Geotechnical/Materials Engineering

- CE 4105:Foundation Design
- CE 4705:Advanced Soil Mechanics

CEDG 3- Transportation Engineering

- CE 4178:Highway Design and Construction
- CE 4706:Pavement Engineering

CEDG 4- Other Engineering

- CE 3398:Internship in Civil Engineering
 - CE 4103:Design of Steel Structures
 - CE 4704:Engineering Hydraulic Analysis and Design
 - CE 4707:Design of Wood Structures
 - CM 3040:Building Information Modeling I
- Any Upper-Division (3000's and 4000's) Surveying & Mapping courses

Program Total (130 Credit Hours)

Computer Engineering, B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/computer-engineering/degrees/bs-computer-engineering.php>

Phone: (470) 578-7247

Email: cpe@kennesaw.edu

Program Description

Computer Engineering (CpE) is a dynamic professional field that blends the fields of hardware engineering with software development. Computer engineers are proficient in electrical and electronic engineering, software design, and hardware-software integration. The goal of a computer engineer is to promote the advancement of digital technology, computer networking, and embedded computer systems. Special focus will be placed in this program upon embedded systems design with the integration of sensors, actuators, and communication technologies.

Engineering Standing Requirements

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (CHEM 1211 and CHEM 1211L) and (PHYS 2211 and PHYS 2211L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MATH 2306:Ordinary Differential Equations
- STAT 2332:Probability and Data Analysis
- MATH 2335:Numerical Methods for Engineers
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II
- CPE 1000:Computer Engineering Fundamentals
- One credit hour from Area A
- Two credit hours from Area D

Lower-Level Required Courses (15 Credit Hours)

- EE 2301:Circuit Analysis I
- EE 2501:Digital Logic Design
- MATH 2345:Discrete Mathematics
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory

Required Courses (43 Credit Hours)

Engineering Standing is required before taking these courses.

- CPE 3000:Computer Organization and Interfacing
- CPE 3020:VHDL Design with FPGAs
- CPE 3030:Advanced Embedded Design
- CPE 3040:Interfacing and Communications
- CPE 4010:Sensors, Actuators and Integration
- CPE 4020:Device Networks

- CPE 4040:Data Collection and Analysis
- CPE 4800:Senior Project Proposal
- CPE 4850:Senior Project Design
- EE 3401:Engineering Electronics
- EE 4201:Control Systems
- ENGR 3325:Engineering Economic Analysis

Engineering Electives (9 Credit Hours)

Student may choose from any 3xxx/4xxx course in CPE, EE, MTRE, SWE, CS, or ME. Engineering standing is required before taking any of these courses.

Program Total (127 Credit Hours)

Electrical Engineering Technology, B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/engineering-technology/degrees/bs-electrical-eng-tech.php>

Phone: (470) 578-7381

Email: electrical_engineering@kennesaw.edu

Program Description

Engineering Technology is a branch of engineering education that emphasizes the practical aspects of engineering rather than abstract concepts or theories. It is a blend of the application of science, engineering knowledge, and technical skills used in support of engineering activities. The Electrical Engineering Technology (EET) program prepares graduates to enter the technical workforce in a variety of fields. Communications, instrumentation, automation, control systems, power, robotics, computers, and medical electronics are but a few of these fields. Within these fields, Electrical Engineering Technology graduates are typically involved in areas such as: development, design, quality assurance, technical documentation, production, maintenance, test, field service, or technical sales.

Laboratory experiences are important components of the EET curriculum. Most EET lecture courses have an associated laboratory course that must be taken concurrently. Also, EET students are required to take ECET 4900 Senior Capstone Design Project as part of their 13 hours of EET electives. Any non-required upper division (3XXX/4XXX) ECET course, with the exception of ECET 3000, may be used for the remainder of their EET electives. Students may also choose one course from outside the major to count as an EET elective. Contact the EET Department to obtain a list of acceptable courses from outside the major that count as an EET elective.

The Electrical Engineering Technology degree is designed to allow flexibility in the choice of EET electives. As an option, students may wish to choose two or more of their electives from a particular focus area.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirement

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science with a major in Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Area B2: COM 1100

- Area D2: (PHYS 2211* and PHYS 2211L *) and (PHYS 2212* and PHYS 2212L*)

Note: * PHYS 1111, PHYS 1111L and PHYS 1112/PHYS 1112L may be substituted for PHYS 2211/PHYS 2211L and PHYS 2212/PHYS 2212L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDG 1210:Survey of Engineering Graphics
- TCOM 2010:Technical Writing
- MATH 2202:Calculus II
- MATH 2306:Ordinary Differential Equations
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
- Two Credit Hours from Area D

Required Courses Specific to the Major (55 Credit Hours)

- ECET 1001:Orientation
- ECET 1012:Design Fundamentals
- ECET 1012L:Design Fundamentals Lab

- ECET 1101:Circuits I
- ECET 1101L:Circuits I Lab
- ECET 1200:Digital I
- ECET 1200L:Digital I Lab
- ECET 2111:Circuits II
- ECET 2111L:Circuits II Lab
- ECET 2210:Digital II
- ECET 2210L:Digital II Lab
- ECET 2300:Electronics I
- ECET 2300L:Electronics I Lab
- ECET 2310:Electronics II
- ECET 2310L:Electronics II Lab
- ECET 3400:Data Communications
- ECET 3400L:Data Communications Lab
- ECET 3410:High Frequency Systems
- ECET 3410L:High Frequency Systems Lab
- ECET 3500:Survey of Electric Machines
- ECET 3500L:Survey of Electric Machines Lab
- ECET 3600:Test Engineering
- ECET 3600L:Test Engineering Lab
- ECET 3620:Signals and Systems Analysis
- ECET 3620L:Signals and Systems Analysis Lab
- ECET 3710:Hardware Programming and Interfacing
- ECET 3710L:Hardware Programming and Interfacing Lab
- ECET 4610:Control Systems
- ECET 4610L:Control Systems Lab

Electrical Engineering Technology Electives (13 Credit Hours)

Students may take a combination of any 3000 or 4000 level ECET or REET course approved by the department chair to meet 13 credit hours. Students must take ECET 4900 Senior Capstone Design as an elective. Students may wish to focus their EET electives in a particular area of Electrical Engineering Technology. Suggested choices in the areas of communications, embedded systems, and power, are listed below:

Communications

- ECET 4320:Active Filters
- ECET 4320L:Active Filters Lab
- ECET 4330:Audio Technology
- ECET 4330L:Audio Technology Lab
- ECET 4420:Communications Circuit Applications
- ECET 4420L:Communications Circuit Applications Lab
- ECET 4431:Wireless Communications Systems
- ECET 4431L:Wireless Communications Systems Lab

- ECET 4820:Communications Networks and the Internet
- ECET 4820L:Communications Networks and the Internet Lab
- ECET 4840:Advanced Telecommunications

Embedded Systems

- ECET 3220:Digital III
- ECET 3640:Introduction to Systems Engineering and Robotics
- ECET 3701:Embedded Systems
- ECET 3701L:Embedded Systems Lab
- ECET 3810:Applications of C++, JAVA and HTML
- ECET 3810L:Applications of C++, Java, and HTML Lab
- ECET 4630:Digital Signal Processing
- ECET 4720:Distributed Microcontrollers and PCs
- ECET 4730:VHDL and Field Programmable Gate Arrays
- ECET 4820:Communications Networks and the Internet
- ECET 4820L:Communications Networks and the Internet Lab

Power

- ECET 4510:Power System Analysis
- ECET 4520:Industrial Distribution Systems, Illumination, and the NEC
- ECET 4530:Industrial Motor Control
- ECET 4540:Introduction to Power Electronics
- ECET 4560:Electric Drives
- ECET 4510L:Power System Analysis Lab
- ECET 4515:Power Distribution Systems
- ECET 4515L:Power Distribution Systems Lab
- ECET 4540L:Introduction to Power Electronics Lab
- REET 3030:Energy Storage Systems
- REET 4100:Solar Photovoltaics
- REET 4110:Solar Thermal Systems
- REET 4200:Wind Power Generation
- REET 4210:Oceanic and Hydropower Generation
- REET 4500:Environmental Aspects of Power Generation
- REET 4510:Sustainable Transportation Systems

Program Total (128 Credit Hours)

Electrical Engineering, BSEE

Contact Information

Website: <https://engineering.kennesaw.edu/electrical/degrees/bs-electrical-engineering.php>

Phone: (470) 578-7381

Email: electrical_engineering@kennesaw.edu

Program Description

Nearly every industry utilizes electrical engineers. Graduates have the qualifications to enter careers in areas such as, but not limited to, telecommunications, computer engineering, manufacturing, aerospace industry, power generation and distribution, alternative energy, robotics, and automation. Typical job titles for graduates may include electrical engineer, electronics engineer, telecommunications engineer, project engineer, planner, project supervisor, consulting engineer, and design engineer.

Electrical Engineering requires rigorous training in basic engineering principles along with the development of skills in the areas of planning and management of design projects and the associated systems and resources. Graduates in the area of Electrical Engineering will be required to master technical elements and to demonstrate particular competence in the areas of communication, fiscal management, and project control. The broad-based background is tailored to develop professionals who will be able to move between the technical and managerial aspects of electrical engineering projects and to serve in key leadership positions within the engineering profession.

Program Educational Objectives: Program educational objectives are broad statements that describe career and professional accomplishments that the program prepares graduates to achieve during the first few years following graduation. Graduates of electrical engineering will:

1. Demonstrate career advancement with increasing responsibility in the electrical engineering industry as owners, managers, lead engineers, or other key positions of leadership.
2. Meet the educational requirements to pursue registration as a professional engineer in the State of Georgia and all other states in the nation.
3. To produce graduates who possess effective research and development skills and who are successfully enrolled in graduate education within Electrical Engineering and related fields.

Engineering Standing Requirements

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu/>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (PHYS 2211 and PHYS 2211L) and (PHYS 2212 and PHYS 2212L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ENGR 2214:Engineering Mechanics - Statics
- MATH 2203:Calculus III
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
- EE 2301:Circuit Analysis I
- One Credit Hour from Area A
- Two Credit Hours from Area D

Other Requirements Specific to the Major: (22 Credit Hours)

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- EE 1000:Foundations of Electrical Engineering
- EE 2302:Circuit Analysis II
- EE 2401:Semiconductor Devices
- EE 2501:Digital Logic Design
- MATH 2306:Ordinary Differential Equations
- STAT 2332:Probability and Data Analysis

Note: Students need to be sure to apply for Engineering Standing prior to the end of their Sophomore Year

Major Requirements (33 Credit Hours)

- ENGR 4402:Engineering Ethics
- EE 3401:Engineering Electronics

- EE 3501:Embedded Systems
- EE 3601:Electric Machines
- EE 3605:Electromagnetics
- EE 3701:Signals and Systems
- EE 3702:Communication Systems
- EE 4201:Control Systems
- EE 4701:Professional Practice
- EE 4800:Senior Project

Upper Level Electives (15 Credit Hours)

EE 3/4XXX Technical Electives (9 Credit Hours); Engineering Science Elective (3 Credit Hours); a Math course above MATH 2335 (3 Credit Hours)

Program Total (130 Credit Hours)

Environmental Engineering, B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/civil-construction/degrees/bs-environmental-engineering.php>

Phone: (470) 578-5076

Email: cce@kennesaw.edu

Program Description

Environmental engineering is a diverse field of Civil Engineering that covers both traditional water/waste-water treatment and emerging issues of public health. Much of the world still suffers from a lack of sanitation and clean water and environmental engineers are trained to solve these and many other problems. Environment engineers apply the principles of science and mathematics to protect public health and minimize human impacts on the environment.

Challenges in energy, water resources, solid/hazardous waste, air quality, globalization, climate change, and environmental degradation must be addressed in a comprehensive effort to promote a sustainable and resilient society. Graduates of Kennesaw State University (KSU) Environmental Engineering program are prepared for careers devoted to finding solutions to these and other problems. The KSU Environmental Engineering program provides a comprehensive education with special emphasis on the demands of water pollution, air pollution, water and waste-water treatment, solid and hazardous waste management and treatment, and other emerging environmental issues, including sustainable air, water, and land resources, human health, and environmental restoration. The program prepares students for entry-level environmental engineering jobs in these fields, for admission to graduate programs, and for professional licensure anywhere in the USA and around the world.

Graduates are qualified to work for consultants, federal, state, and local governments. There are professional opportunities as an environmental design engineer, permitting engineer, compliance engineer, environmental specialist, water and waste-water engineer, environmental scientist, and more. The curriculum is tailored to develop professionals who are able to move between the technical and managerial aspects of environmental engineering projects and to serve in key leadership positions within the engineering profession.

Engineering Standing Requirements

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of this Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (PHYS 2211 and PHYS 2211L) and (BIOL 1107 and BIOL 1107L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ENGR 2214:Engineering Mechanics - Statics
 - SURV 2221:Surveying I
 - SURV 2221L:Surveying I Lab
 - CHEM 1211:Principles of Chemistry I
 - CHEM 1211L:Principles of Chemistry Laboratory I
 - CHEM 1212:Principles of Chemistry II
 - CHEM 1212L:Principles of Chemistry Laboratory II
- One Credit Hour from Area A
Two Credit Hours from Area D

Major Requirements (60 Credit Hours)

- MATH 2306:Ordinary Differential Equations

- ENVS 2202- Introduction to Environmental Science (eCore)*
- EDG 2160:Civil Graphics and Computer Aided Drafting
- ENGR 3131:Strength of Materials
- ENGR 3305:Data Collection and Analysis in Engineering
- ENGR 3324:Project Cost Analysis
- ENGR 3343:Fluid Mechanics
- ENGR 3345:Fluid Mechanics Laboratory
- CE 1000:Orientation to Engineering and Surveying Professions
- CE 2003:Engineering Problem Solving
- CE 3501:Materials for Civil & Construction Engineering
- CE 3502:Materials for Civil & Construction Engineering Lab
- CE 3701:Geotechnical Engineering
- CE 3708:Geotechnical Engineering Lab
- CE 3702:Introduction to Environmental Engineering
- CE 3703:Environmental Engineering Design
- CE 3704:Introduction to Environmental Engineering Laboratory
- CE 4353:Air Pollution Control
- CE 4343:Solid Waste Engineering
- CE 4371:Environmental Engineering Laboratory
- CE 4373:Environmental Engineering Microbiology
- CE 4703:Engineering Hydrology
- CE 4708:Hazardous Waste Engineering
- CE 4800:Senior Project

Upper Division Elective Courses (9 Credit Hours)

Select three courses:

- CE 4363:Environmental Engineering Chemistry
- CE 4383:Sustainability for Engineers
- CE 4704:Engineering Hydraulic Analysis and Design
- CE 3398:Internship in Civil Engineering
- CE 4490:Special Topics in CE/CnE
- GEOG 3315:Introduction to Geographic Information Systems

Program Total (129 Credit Hours)

Industrial and Systems Engineering B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/bs-systems.php>

Phone: (470) 578-7243

Email: isye@kennesaw.edu

Program Description

The Industrial and Systems Engineering program is a combination of Industrial Engineering and Systems Engineering. Industrial engineering is concerned with design, improvement and implementation of integrated processes of people, processes, information, materials, management and equipment. IE's draw upon specialized knowledge and skill in the mathematical, physical, and social sciences combined with the principles and methods of engineering analysis and design, to specify, predict, and evaluate processes and systems.

Systems engineering is an interdisciplinary and structured approach to designing and deploying successful systems to blends engineering, systems thinking, and management topics. Systems engineering deals with work-processes, optimization methods, and risk management tools while ensures that all likely aspects of a project or system are considered, and integrated into a whole.

Students in this major have the opportunity to concentrate in either Industrial or Systems. Due to the relevance of the two disciplines, 75% of the curriculum is shared providing graduates with an expanded job market opportunities while the remaining 25% is directed towards the specifics of each area of engineering.

Upon graduation, students will be able to demonstrate:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as to analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multidisciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- a broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and an ability to engage in life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Engineering Standing Requirements

Admission Requirements

This program does not have separate admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Industrial and Systems Engineering is accredited by the Engineering Accreditation Commission (EAC) of ABET, <http://www.abet.org>.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific for This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (PHYS 2211 and PHYS 2211L) and (CHEM 1211 and CHEM 1211L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ENGR 1100:Survey of Engineering Applications from Mathematics
- ISYE 1000:Introduction to Industrial & Systems Engineering

- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
- or
- CHEM 1212:Principles of Chemistry II
- CHEM 1212L:Principles of Chemistry Laboratory II
- or
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- One hour from Area A
- Two hours from Area D

Industrial & Systems Engineering Major Requirements (39 Credit Hours)

- TCOM 2010:Technical Writing
- MATH 3260:Linear Algebra I
- ENGR 2214:Engineering Mechanics - Statics
- ENGR 3325:Engineering Economic Analysis
- EDG 1210:Survey of Engineering Graphics
- ENGR 3250:Project Management for Engineers
- ISYE 3150:Design & Improvement of Quality Processes
- ENGR 4402:Engineering Ethics
- ISYE 2600:Probability and Statistics I
- ISYE 3400:Deterministic Operations Research
- ISYE 3600:Probability and Statistics II
- ISYE 4200:Engineering Optimization: Stochastic Decision Models
- ISYE 4500:System Modeling & Simulation
- ISYE 4900:Senior Design Project

Concentrations (28 Credit Hours)

Select one of the following concentrations and appropriate Technical Electives:

Industrial Engineering Concentration

- ACCT 2101:Principles of Accounting I
 - ISYE 3125:Statistical Quality Control
 - ISYE 3350:Logistics & Supply Chain Systems
 - ISYE 3450:Work Measurement Study
 - ISYE 4250:Manufacturing & Service Systems
 - ISYE 4425:Facilities Planning & Material Handling
- Select 10 Credit Hours from the list of Technical Electives

Systems Engineering Concentration

- EE 2301:Circuit Analysis I
 - ENGR 3122:Engineering Mechanics - Dynamics
- or
- ME 3410:Thermodynamics
 - ISYE 3100:Systems Reliability & Maintainability
 - ISYE 3120:Contemporary Technological Systems: Design, Analysis, & Architecture
 - ISYE 3200:Human Machine Systems
- Select 12 Credit hours from the list of Technical Electives

Technical Electives

- ISYE 3398:Internship
- ISYE 4400:Directed Study

- ISYE 4490:Special Topics
Any 3xxx or 4xxx level courses in ENGR, CE, EE, ME, MTRE, ISYE, SWE, STAT, MGT, IS or ISA

Program Total (127 Credit Hours)

Industrial Engineering Technology, B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/bs-industrial-tech.php>

Phone: (470) 578-7243

Email: iet@kennesaw.edu

Program Description

If you like to be at the center of the action, designing creative solutions that make business and industry work safer, faster, and leaner, making organizations more efficient, productive, and cost-effective then the career for you is Industrial Engineering Technology.

This Bachelor of Science degree offers the graduate a challenging career in business, industry, or government. Graduates deal primarily with the process management of money, materials, and labor in a business and industrial environment.

Career opportunities involve problem solving in the fields of:

- Quality Control
- Production/Materials Management
- Information Systems
- Process Improvement
- Logistics and Supply Chain Management
- Systems Simulation
- Salary and Compensation Plans
- Workplace Design
- Personnel Management
- Occupational Safety, Health and Ethics
- Project Management
- Economic Analysis/Cost Control

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science with a major in Industrial Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit doubleowl.kennesaw.edu

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- TCOM 2010:Technical Writing
- IT 1113:Programming Principles
- EDG 1210:Survey of Engineering Graphics
- IET 2305:The Role of Industrial Engineering Technology in Industrial Systems

- PHYS 1111:Introductory Physics I
- PHYS 1111L:Introductory Physics Laboratory I
Or
- PHYS 1112:Introductory Physics II
- PHYS 1112L:Introductory Physics Laboratory II
Or
- PHYS 2211:Principles of Physics I

- PHYS 2211L:Principles of Physics Laboratory I
Or
- PHYS 2212:Principles of Physics II
- PHYS 2212L:Principles of Physics Laboratory II
Or
- CHEM 1152:Survey of Chemistry II
- CHEM 1152L:Survey of Chemistry Laboratory II
Or
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
Or
- CHEM 1212:Principles of Chemistry II
- CHEM 1212L:Principles of Chemistry Laboratory II
Or
- BIOL 1107:Biological Principles I
- BIOL 1107L:Biological Principles I Laboratory
Or
- BIOL 1108:Biological Principles II
- BIOL 1108L:Biological Principles II Laboratory
Or
- SCI 1101:Science, Society, and the Environment I
Two Credit Hours from Area D

Required Courses Specific to the Major (52 Credit Hours)

- ACCT 2101:Principles of Accounting I
or
- IET 2432:Introduction to Managerial Costing (not equivalent to ACCT 2100)
- IET 1000:Orientation
- IET 2227:Introduction to Statistics
- IET 2449:Logistics and Supply Chain Management
- IET 3322:Work Measurement and Ergonomics
- IET 3339:Statistical Quality Control
- IET 3356:Quality Concepts and Systems Design
- IET 3403:Advanced Statistics with Application
- IET 3424:Engineering Economy
- IET 3433:Product and Process Costing
- IET 4115:Human Resources Management for Engineers
- IET 4135:IET Project Management
- IET 4151:Operations Management for Engineers
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4422:Facilities Design, Plant Layout, and Materials Handling
- IET 4451:Systems Simulation
- IET 4475:Senior Project

- IET 4810:Ethics and Safety

Upper-Level Electives (9 Credit Hours)

Choose 9 credits from any upper-division IET courses. Students may consider pursuing a Green Belt Certificate by electing courses from the section below.

Quality Principles Concentration Electives

The primary objective of the Quality Principles Concentration is to provide training and education to students interested in quality system principles, methodology, elements and standards. In addition to required courses IET 3339, IET 3356, IET 3403, IET 4135, and IET 4151, students who successfully complete the following two courses with a grade of "C" or better in each will be awarded a Green Belt Certificate.

- IET 3407:Six Sigma and Lean Manufacturing
- IET 3410:Principles of Team Dynamics

Logistics Concentration Electives

The primary objective of the Logistics Concentration is to provide training and education to students interested in entering the Supply Chain industry. In addition to required courses IET 2227, IET 2449, IET 4405, IET 4115, and IET 4151, students must complete the following courses.

- IET 3320:Advanced Logistics
- IET 3511:Sustainability Engineering
or
- IET 3620:Warehousing Systems

Free Electives (6 Credit Hours)

Any courses in the university curriculum.

Program Total (127 Credit Hours)

Manufacturing Operations, B.A.S.

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/bas-manufacturing-operations.php>

Phone: (470) 578-7243

Email: basmo@kennesaw.edu

Program Description

The Bachelor of Applied Science with a major in Manufacturing Operations has been specifically designed for students who have completed an Associate of Applied Science or Associate of Applied Technology Degree from a Technical College System of Georgia (TCSG) or any regionally accredited 2-year institution.

The goal of the partnership between KSU and the TCSG schools is to provide an opportunity for degreed graduates from the technical schools of Georgia, and other regionally accredited technical schools across the country, to complete a Bachelor's degree in approximately two years as a full-time student. Courses from the degree program will transfer as a block or as individual credit as outlined for each program.

This degree prepares students with upper level study in the areas of project management, statistics, six sigma quality, lean manufacturing, facilities layout, operations management, safety and ethics, behavior science through an industry-driven curriculum encompassing manufacturing processes, quality principles, engineering economy, human resources, and simulation.

Admissions Requirements

Admission to Manufacturing Operations B.A.S. is separate from admission to Kennesaw State University. To be eligible, students must graduate from a technical school with a related AAS or AAT degree.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A- E) (42 Credit Hours)

See listing of requirements

General Education Core Curriculum Requirements Specific to This Major:

- Area D1: STAT 1401
- Area D2: 1 non-lab science is allowed

Lower Division Major Requirements (Area F) (18 Credit Hours)

Technical Block - Up to 18 Credit Hours

Major Requirements (51 Credit Hours)

- IET 2305: The Role of Industrial Engineering Technology in Industrial Systems

- IET 3322:Work Measurement and Ergonomics
- IET 3339:Statistical Quality Control
- IET 3356:Quality Concepts and Systems Design
- IET 3424:Engineering Economy
- IET 4115:Human Resources Management for Engineers
- IET 4135:IET Project Management
- IET 4151:Operations Management for Engineers
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4422:Facilities Design, Plant Layout, and Materials Handling
- IET 4810:Ethics and Safety
- Technical Block - 17 Credit Hours from Student's A.A.S. Degree

Upper Level Electives (9 Credit Hours)

Choose any three courses:

- IET 3403:Advanced Statistics with Application
- IET 3407:Six Sigma and Lean Manufacturing
- IET 3410:Principles of Team Dynamics
- IET 3511:Sustainability Engineering
- IET 3620:Warehousing Systems
- IET 4451:Systems Simulation
- MGT 3100:Management and Behavioral Sciences

Program Total (120 Credit Hours)

Mechanical Engineering Technology, B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/engineering-technology/degrees/bs-mechanical-engineering-tech.php>

Phone: (470) 578-7274

Email: met@kennesaw.edu

Program Description

Graduates are capable of applying engineering principles to today's industrial problems. In the four-year Bachelor's degree programs, emphasis is placed on necessary theoretical concepts as well as practical laboratory experience in manufacturing processes and techniques, instrumentation and controls, and equipment and machinery design, and performance testing and evaluation. Particular emphasis is placed on studies meeting the needs of those industries which are prevalent in the Southeast.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science with a major in Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

Program of Study

General Education (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Area D2: (PHYS 2211 and PHYS 2211L) and (PHYS 2212 and PHYS 2212L)

PHYS 1111/PHYS 1111L and PHYS 1112/PHYS 1112L may be substituted for PHYS 2211/PHYS 2211L and PHYS 2212/PHYS 2212L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MATH 2202:Calculus II
- STAT 2332:Probability and Data Analysis
or
- IET 2227:Introduction to Statistics
- MET 1400:Welding & Fabrication for Engineers
- TCOM 2010:Technical Writing
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
Two Credits from Area D

Required Courses (56 Credit Hours)

- EDG 1211:Engineering Graphics I

- EDG 1212:Engineering Graphics II
- MET 3126:Engineering Dynamics with Applications
or
- ENGR 3122:Engineering Mechanics - Dynamics
- MET 3124:Strength of Materials with Applications and
- MET 3124L:Strength of Materials Lab
or
- ENGR 3131:Strength of Materials and
- ENGR 3132:Strength of Materials Lab
- MET 2124:Statics with Applications
or
- ENGR 2214:Engineering Mechanics - Statics
- MET 1000:Mechanical Engineering Technology Orientation
- MET 1311:Manufacturing Processes
- MET 1800:CNC and Machining
- MET 2301:Metrology and Geometric Dimensioning & Tolerancing
- MET 2501:Engineering Computation using Matlab
- MET 2800:CNC Programming
- MET 3101:Fluid Mechanics Principles & Applications
- MET 3132:Engineering Materials
- MET 3132L:Engineering Materials Lab
- MET 3401:Thermodynamics I
- MET 4501:Machine Design
- MET 4502:Senior Design
- ECET 3000:Electrical Principles
- ECET 4530:Industrial Motor Control

Choose One of the Concentrations Below (12 Credit Hours)

General Concentration

Select one of the following: (3 Credit Hours)

- MET 3123:Dynamics of Machines
- MET 3331:Tool Design
- MET 3402:Thermodynamics II
- MET 4112:Computer Aided Engineering & Analysis

Upper Level Electives (9 Credit Hours)

Select any nine credit hours from the following:

- MET 3XXX
- MET 4XXX
- IET 4135
- EDG 3XXX
- EDG 4XXX (Maximum of 2 EDG courses allowed for General Concentration)

Note: Students taking the General Concentration are not allowed to select minors in Engineering Design Graphics, Manufacturing Engineering Technology, or Energy/HVAC.

Energy-HVAC Concentration

- MET 3402:Thermodynamics II

Choose three courses from the following:

- MET 4341:Automation Systems and Controls
- MET 4401:Heat Transfer
- MET 4411:Refrigeration
- ENGR 4412:Air Conditioning
- MET 4431:Plant and Power Applications
- REET 4110:Solar Thermal Systems

Engineering Graphics Design Concentration

- MET 4112:Computer Aided Engineering & Analysis

Choose three courses from the following:

- EDG 3112:Advanced Engineering Graphics
- EDG 4111:Surface Modeling
- EDG 4224:Engineering Design Graphics for Custom Manufacturing
- EDG 4222:CAD Customization and Standards
- MET 3332:Rapid Design and Manufacture

Manufacturing Concentration

- MET 3331:Tool Design

Choose three courses from the following:

- EDG 4224:Engineering Design Graphics for Custom Manufacturing
- MET 3332:Rapid Design and Manufacture
- MET 4133:Advanced Engineering Materials
- MET 4341:Automation Systems and Controls
- MET 4342:Numerical Control of Machines
- MET 4142:Mechanical Systems Design
- IET 4135:IET Project Management

- IET 3407:Six Sigma and Lean Manufacturing

Program Total (128 Credit Hours)

Mechanical Engineering, BSME

Contact Information

Website: <https://engineering.kennesaw.edu/mechanical/>

Phone: (470) 578-2737

Email: mechanical@kennesaw.edu

Program Description

Mechanical engineering is one of the largest disciplines of engineering because it is one of the broadest. It focuses on the application of the principles of mechanics and materials to design machines and devices. In this energy conscious world, a thorough understanding of energy and its uses is essential to the success of a mechanical engineer.

Mechanical engineers help to design energy efficient devices such as wind-turbines as well as artificial knee joints that help society.

Graduates have the qualifications to enter graduate school, become a licensed professional engineer in any state after sufficient work experience, or directly enter careers in areas such as, but not limited to, manufacturing, aerospace industry, power generation and distribution, automotive design, machine design, alternative energy, robotics, and automation. Typical job titles for graduates may include design engineer, project engineer, process engineer, test engineer, development engineer, program manager, consulting engineer, and field engineer.

Mechanical Engineering requires rigorous training in basic science and engineering principles along with the development of skills in the areas of computer-aided design, instrumentation, and planning and management of design projects. Graduates in the area of Mechanical Engineering will be required to master technical elements and to demonstrate particular competence in the areas of communication, fiscal management, and project control. The broad-based background is tailored to develop professionals who will be able to move between the technical and managerial aspects of mechanical engineering projects and to serve in key leadership positions within the engineering profession. As with all engineering degrees, a mechanical engineer becomes very good at solving difficult problems which makes it a good degree for non-engineering careers as well.

Engineering Standing Requirements

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Mechanical Engineering program was approved by the Board of Regents in August 2009. The Bachelor of Science in Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (PHYS 2211 and PHYS 2211L) and (PHYS 2212 and PHYS 2212L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ME 1001:Introduction to Mechanical Engineering
- ME 1311:MATLAB for Engineers with Applications
- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
- STAT 2332:Probability and Data Analysis
- EDG 1211:Engineering Graphics I
- One Credit Hour from Area A
- Two Credit Hours from Area D

Math or Science Elective (3 Credit Hours)

Select one of the following courses:

- CHEM 1212:Principles of Chemistry II
- BIOL 1107:Biological Principles I
- BIOL 2221:Human Anatomy & Physiology I

- MATH 2335:Numerical Methods for Engineers
- MATH 3260:Linear Algebra I
- MATH 3261:Numerical Methods I

Some MATH OR PHYS classes may be approved for math or science electives by the department chair.

Major Requirements (61 Credit Hours)

- MATH 2306:Ordinary Differential Equations
- ENGR 2214:Engineering Mechanics - Statics
- EE 2305:Electronic Circuits and Machines
- ME 3101:Materials Science and Engineering
- ENGR 3122:Engineering Mechanics - Dynamics
- ENGR 3131:Strength of Materials
- ENGR 3132:Strength of Materials Lab
- ENGR 3343:Fluid Mechanics
- ENGR 3345:Fluid Mechanics Laboratory
- ME 4250:Computer Aided Engineering
- ENGR 4402:Engineering Ethics
- ME 4403:Heat Transfer and Thermodynamics Lab
- ME 3410:Thermodynamics
- ME 3201:Product Realization
- ME 3440:Heat Transfer
- ME 3501:Dynamic Systems & Control Theory
- ENGR 3125:Machine Dynamics and Vibrations
- ME 3701:Manufacturing Engineering
- ME 4141:Machine Design I
- ME 4201:Senior Design I
- ME 4202:Senior Design II
- ME 4501:Vibrations & Controls Lab
- MATH 2203:Calculus III
- ENGR 3325:Engineering Economic Analysis

Upper Division Technical Electives (6 Credit Hours)

Select two courses:

- ME 3133:Composite Mechanics
- ME 3705:Internal Combustion Engines
- ME 4301:Renewable Energy for Mechanical Engineering
- ME 4307:Design for X
- ME 4520:Acoustics & Noise Control
- ME 3398:Internship
- ME 4400:Directed Study
- ME 4490:Special Topics in Mechanical Engineering

- ENGR 3501:Fundamentals of Nuclear Engineering
- ENGR 3502:Radiation Detection & Measurement
- ENGR 4501:Nuclear Power Generation
- ENGR 4502:Radiation Protection & Health Physics
- ENGR 4503:Nuclear Fuel Cycle
- ENGR 4504:Nuclear Reactor Simulation
- ENGR 3801:Aerodynamics
- ENGR 3802:Aircraft Design & Performance
- ENGR 3803:Fundamentals of Avionics
- ENGR 4801:Aircraft Propulsion
- ENGR 4802:Helicopter Theory
- ENGR 4803:Aeronautics Senior Design Project
- MTRE 3710:Mechatronics Engineering Fundamentals

Some ENGR, EE, MTRE, or ISYE courses may be approved for technical electives by the department chair.

Program Total (130 Credit Hours)

Mechatronics Engineering B.S.

Contact Information

Website: <https://engineering.kennesaw.edu/mechatronics/degrees/bs-mechatronics.php>

Phone: (470) 578-7234

Email: mechatronics@kennesaw.edu

Program Description

IEEE/ASME Transactions on Mechatronics was the first refereed journal published in the United States focused on Mechatronics. In the first issue (March 1996), mechatronics was defined as: "The synergistic integration of mechanical engineering with electronics and intelligent computer control in the design and manufacturing of industrial products and processes." Ten specific topics were identified under the general category of mechatronics:

- Modeling and Design
- Motion Control
- System Integration
- Vibration and Noise Control
- Actuators and Sensors
- Micro Devices & Optoelectronic Systems
- Intelligent Control
- Automotive Systems
- Robotics
- Manufacturing

Mechatronic systems can be a complete product or a sub-component of a product. Examples of mechatronic systems include aircraft flight control and navigation systems; automotive electronic fuel injection and anti-lock brake systems; automated manufacturing systems including robots, numerical control machining centers, packaging systems and plastic injection-molding systems; artificial organs; health monitoring and surgical systems; copy machines; and many more. Some common element of all these systems is the integration of analog and digital circuits, microprocessors and computers, mechanical devices, sensors, actuators, and controls.

Mechatronics Engineering graduates can select from a wide spectrum of industries for career choices and can also contribute in a variety of roles including design engineer, software engineer, project planner, product designer, and project manager. Mechatronics Engineering program graduates are able to select from jobs as Mechatronics specialists in a variety of industries. Opportunities are also available to graduates in smaller companies that need generalists who can perform both mechanical and electrical engineering functions.

Engineering Standing Requirements

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science with a major in Mechatronics Engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Engineering Majors must take MATH 1190 in Area A2 and MATH 2202 in Area D1

Area D2: (PHYS 2211 and PHYS 2211L) and (PHYS 2212 and PHYS 2212L)

Lower Division Major Requirements (Area F) (18 Credit Hours)

- MATH 2203:Calculus III

- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
- EDG 1211:Engineering Graphics I
- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- One Credit Hour from Area A
- Two Credit Hours From Area D

Mechatronics Engineering Required Courses (62 Credit Hours)

- EE 2301:Circuit Analysis I
- EE 3401:Engineering Electronics
- EE 2501:Digital Logic Design
- ENGR 2214:Engineering Mechanics - Statics
- ENGR 3122:Engineering Mechanics - Dynamics
- ENGR 3131:Strength of Materials
- ENGR 3132:Strength of Materials Lab
- ENGR 3343:Fluid Mechanics
- MATH 2306:Ordinary Differential Equations
- MATH 3260:Linear Algebra I
- MTRE 1000:Introduction to Mechatronics Engineering
- MTRE 2610:Intermediate Programming for Mechatronics
- MTRE 3710:Mechatronics Engineering Fundamentals
- MTRE 4001:Modeling and Feedback Control of Dynamic Systems
- MTRE 4002L:Feedback Control Laboratory
- MTRE 4010:Advanced Controls
- MTRE 4100:Instruments and Controls
- MTRE 4200:Robotics Analysis and Synthesis
- MTRE 4800:Mechatronics System Design
- ENGR 3325:Engineering Economic Analysis

Electives (7 Credit Hours)

- MATH Elective (3 Credit Hours)- Must be MATH 2332 or higher
- Technical Elective (4 Credit Hours)- CS 3xxx/4xxx, CPE 3xxx/4xxx (excluding CPE 4010), EE 3xxx/4xxx (excluding EE 4201), ENGR 3xxx/4xxx , ME 3xxx/4xxx (excluding ME 3501 and ME 4501), or MTRE 3xxx/4xxx.

Program Total (129 Credit Hours)

Note: The Mechatronics Engineering degree requires a grade of "C" or better in all major required courses applied to degree requirements. All math and science courses require a grade of "C" or better.

Supply Chain Logistics, B.A.S.

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/bas-supply-chain-logistics.php>

Phone: (470) 578-7243

Email: basscl@kennesaw.edu

Program Description

The Bachelor of Applied Science with a major in Supply Chain Logistics has been specifically designed for students who have completed an Associate of Applied Science or Associate of Applied Technology Degree from a Technical College System of Georgia (TCSG) or any regionally accredited 2-year technical school.

The goal of the partnership between KSU and the TCSG schools is to provide an opportunity for degreed graduates from the technical schools of Georgia, and other regionally accredited technical schools across the country, to complete a Bachelor's degree in approximately two years as a full-time student.

Admission Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, to be eligible, students must graduate from a technical school with a related AAS or AAT degree. Courses from the degree program will transfer as a block or as individual credit as outlined for each program.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major:

- Area D1: STAT 1401
- Area D2: 1 non-lab science allowed

Lower Division Major Requirements (Area F) (18 Credit Hours)

- Technical Block - Up to 18 Semester Hours

Major Requirements (51 Credit Hours)

- IET 2449:Logistics and Supply Chain Management
- IET 3320:Advanced Logistics
- IET 3339:Statistical Quality Control
- IET 3356:Quality Concepts and Systems Design
- IET 3424:Engineering Economy
- IET 3511:Sustainability Engineering
- IET 3620:Warehousing Systems
- IET 4115:Human Resources Management for Engineers
- IET 4135:IET Project Management
- MKTG 3100:Principles of Marketing
- MGT 3100:Management and Behavioral Sciences
- Major Technical Block- Up to 18 Credit Hours from AAS degree.

Upper-Level Electives (9 Credit Hours)

Choose any three courses from the following:

- IET 3403:Advanced Statistics with Application
- IET 3407:Six Sigma and Lean Manufacturing
- IET 3410:Principles of Team Dynamics
- IET 4151:Operations Management for Engineers
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4451:Systems Simulation

Program Total (120 Credit Hours)

Certificate

Logistics Certificate

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/cert-logistics.php>

Phone: (470) 578-7243

Email: isye@kennesaw.edu

Program Description

The primary objective of the Certificate in Logistics is to provide training and education to members of the Supply Chain industry that need to improve skills and knowledge in the latest technology available

in their field. Students can complete the requirements in 4-6 semesters. The courses may also be applied toward completing a B.S. degree with a major in Industrial Engineering Technology. The program will be offered on campus and through distance learning.

Student outcomes

1. Demonstrate a conceptual knowledge of logistics
2. Communicate effectively in written and presentation skills
3. Utilize support and research systems for logistics
4. Demonstrate an ability to plan, execute and critique sound logistics concepts and ideas

Requirements

- IET 2227:Introduction to Statistics
- IET 2449:Logistics and Supply Chain Management
- IET 3320:Advanced Logistics
- IET 3620:Warehousing Systems
- IET 4115:Human Resources Management for Engineers
- IET 4151:Operations Management for Engineers
- IET 4405:Operations Research - Concepts, Models and Methods

Program Total (21 Credit Hours)

Production Design Certificate

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/cert-production-design.php>

Phone: (470) 578-7243

Email: isye@kennesaw.edu

Program Description

The primary objective of the Certificate in Production Design is to provide training and education to members of the Industrial Engineering field in the measurement and analysis of work and in the design or improvement of facilities. Students can complete the requirements in 3-4 semesters. These courses may also be applied toward completing a B.S. degree with a major in Industrial Engineering Technology upon acceptance into KSU.

Student outcomes

1. Create efficient facilities layout designs
2. Demonstrate a knowledge of work measurement standards
3. Design ergonomically efficient working environments
4. Understand and exercise sound operations management & research

Requirements

- ACCT 2101:Principles of Accounting I
- IET 2227:Introduction to Statistics
- IET 3322:Work Measurement and Ergonomics
- IET 4151:Operations Management for Engineers
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4422:Facilities Design, Plant Layout, and Materials Handling

Program Total (20 Credit Hours)

Quality Principles Certificate

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/cert-quality-principles.php>

Phone: (470) 578-7243

Email: isye@kennesaw.edu

Program Description

The primary objective of the Certificate in Quality Principles is to provide training and education to members of the Industrial Engineering field in quality system principles, methodology, elements and standards. Students can complete the requirements in 3-4 semesters. These courses may also be applied toward completing a B.S. degree with a major in Industrial Engineering Technology upon acceptance to KSU.

Student outcomes

1. Demonstrate a knowledge of statistics for quality control
2. Effectively demonstrate quality concepts and ideas
3. Work successfully in team environments
4. Identify and manage quality projects

Requirements

- IET 2227:Introduction to Statistics
- IET 3339:Statistical Quality Control
- IET 3356:Quality Concepts and Systems Design
- IET 3403:Advanced Statistics with Application
- IET 3410:Principles of Team Dynamics
- IET 4135:IET Project Management
- IET 4151:Operations Management for Engineers

Program Total (21 Credit Hours)

Formal Minor

Aerospace Engineering Minor

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/minor-aerospace.php>

Phone: (470) 578-7243

Program Description

The Aerospace Engineering (AE) minor is designed to provide students with sufficient knowledge and skills to allow them to operate as a competent practitioner within the field of aerospace engineering. Students will develop not only technical know-how but also a practical and analytical approach to problem-solving that will allow them to address a range of aerospace engineering challenges.

All engineering and engineering technology degree seeking students are eligible to apply for a minor in Aerospace Engineering. To earn a minor, a student needs to complete a minimum of five courses as listed in the curriculum below. The pre-requisite to start the program is MATH 2202 Calculus II.

Required Courses (6 Credit Hours)

- ENGR 3801:Aerodynamics
- ENGR 4803:Aeronautics Senior Design Project

Electives (9 Credit Hours)

Choose three courses from the following:

- ENGR 3802:Aircraft Design & Performance
- ENGR 3803:Fundamentals of Avionics
- ENGR 4801:Aircraft Propulsion
- ENGR 4802:Helicopter Theory

Program Total (15 Credit Hours)

Biomedical Engineering Minor

Contact Information

Website: <https://engineering.kennesaw.edu/electrical/>

Phone: (470) 578-7381

Email: electrical_engineering@kennesaw.edu

Program Description

A minor in Biomedical Engineering is suitable for students wishing to apply their knowledge of engineering principles to medical and biological problems. This minor is a collaboration between the Southern Polytechnic College of Engineering and Engineering Technology and the WellStar College of Health and Human Services. Students need to complete 15 credit hours in this minor program. The student must earn a 'C' or better in all courses for the minor.

All upper-level engineering courses require Engineering Standing.

Non-engineering students who desire to enroll in upper-level engineering courses to complete a minor or a dual major must have the applicable course prerequisites and a 2.7GPA in the following courses:

ENGL 1101 Composition I

ENGL 1102 Composition II

PHYS 2211 Principles of Physics I & PHYS 2211L Principles of Physics Laboratory I

CHEM 1211 Principles of Chemistry I & CHEM 1211L Principles of Chemistry Laboratory I

OR

PHYS 2212 Principles of Physics II & PHYS 2212L Principles of Physics Laboratory II

MATH 1190 Calculus I

MATH 2202 Calculus II

12 additional credits from courses in the Southern Polytechnic College of Engineering and Engineering Technology or with prefixes CHEM, CS, CSE, IT, MATH, PHYS, or STAT.

Required Courses (12 Credit Hours)

- ENGR 3410: Fundamentals of Biomedical Engineering
- ENGR 3411: Biomechanics for Engineers
- ENGR 3412: Biomedical Circuit Applications
- HPE 2250: Functional Anatomy and Physiology

Electives (3 Credit Hours)

Students must complete three credit hours in one or a combination of the following:

- ES 2100: Physical Activity in Health and Disease
- ES 2300: Medical Terminology
- EE 4400: Directed Study in Electrical Engineering *
- ES 4400: Directed Study *
- ISYE 4400: Directed Study *
- ME 4400: Directed Study *
- MTRE 4400: Directed Research - Mechatronics *

* Research projects must have biomedical emphasis and requires the approval of the EE Department Chair

Program Total (15 Credit Hours)

Energy/HVAC Minor

Contact Information

Website: <https://engineering.kennesaw.edu/engineering-technology/degrees/minor-energy-hvac.php>

Phone: (470) 578-7274

Email: eet@kennesaw.edu

Program Description

The Energy/HVAC (heating, ventilating, air conditioning) minor concentrates on the design and operation of heat and mass transfer systems, which produce the needed environments for manufacturing operations, industrial processes, and human comfort. Systems utilizing mechanical equipment are focused on such as pumps, blowers, fans, air compressors, heat exchangers, internal combustion engines, steam turbines, and boilers.

The profession includes fields as diverse as air conditioning, low temperature metallurgy, food preservation, chemical processing, and industrial manufacturing. Energy/HVAC occupations include:

- HVAC systems engineers - for consulting firms and mechanical contractors
- Manufacturers' sales representatives
- Process plant engineers - in the petrochemical and pulp and paper industry
- Engineers - for power generation plants
- Maintenance supervisors
- Sales representatives - for manufacturers

Required Courses

Students must take the following two courses:

- ME 3410:Thermodynamics *
 - or
 - MET 3401:Thermodynamics I **
 - MET 3402:Thermodynamics II
- *ME students must take ME 3410
**MET students must take MET 3401

Electives

Select three courses from the following:

- ME 3440:Heat Transfer *
- or
- MET 4401:Heat Transfer *

- MET 4411:Refrigeration
 - ENGR 4412:Air Conditioning
 - MET 4431:Plant and Power Applications
 - REET 4110:Solar Thermal Systems
- *ME students take ME 3440, MET students take MET 4401, not both

Required Basic and Engineering Science and Mathematics Prerequisite Courses

Most of the engineering disciplines require these courses.

Non-engineering students may have to take these courses before they can take the minor courses.

- ENGR 2214:Engineering Mechanics - Statics
- ENGR 3343:Fluid Mechanics
- MET 3101:Fluid Mechanics Principles & Applications
- PHYS 1111:Introductory Physics I
- PHYS 2211:Principles of Physics I

Note: ME students must take PHYS 2211 and ENGR 3343. MET student may take either PHYS 1111 or PHYS 2211 and MET 3101 or ENGR 3343

Program Total (15 Credit Hours)

Engineering Design Graphics Minor

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/index.php>

Phone: (470) 578-7243

Email: isye@kennesaw.edu

Program Description

Note: Not available to MET students with a concentration in Engineering Design Graphics.

Engineering Standing Requirements

Requirements

- EDG 1212:Engineering Graphics II
- Select four additional courses from the following:
- EDG 3112:Advanced Engineering Graphics
 - MET 3332:Rapid Design and Manufacture
 - EDG 4111:Surface Modeling
 - EDG 4222:CAD Customization and Standards
 - EDG 4224:Engineering Design Graphics for Custom Manufacturing
- MET 4112:Computer Aided Engineering & Analysis

or

- ME 4250:Computer Aided Engineering

Program Total (16 Credit Hours)

Environmental Engineering Minor

Contact Information

Website: <https://engineering.kennesaw.edu/civil-construction/degrees/minor-environmental.php>

Phone: (470) 578-5076

Email: cce@kennesaw.edu

Program Description

The minor in Environmental Engineering is designed to provide students in engineering, science, and other majors with a comprehensive study of environmental issues and the skills necessary to solve problems associated with environmental pollution. Today, environmental concerns strongly influence many aspects of engineering practice.

The curriculum is designed to provide students with:

- (a) a foundation to pursue a career in environmental engineering and
- (b) an understanding of the environmental consequences of their designs.

Engineering Standing Requirements

Required Basic and Engineering Science and Mathematics Prerequisite Courses (23 Credit Hours)

Most of the engineering disciplines require these courses. Non-engineering students may have to take these courses before they can take the Environmental Engineering Breadth and Depth Courses.

- CHEM 1211:Principles of Chemistry I
- CHEM 1211L:Principles of Chemistry Laboratory I
- CHEM 1212:Principles of Chemistry II
- CHEM 1212L:Principles of Chemistry Laboratory II
- PHYS 2211:Principles of Physics I
- PHYS 2211L:Principles of Physics Laboratory I
- ENGR 2214:Engineering Mechanics - Statics
- ENGR 3343:Fluid Mechanics
- ENGR 3345:Fluid Mechanics Laboratory
- MATH 1190:Calculus I

Required Environmental Engineering Breadth Courses (8 Credit Hours)

- CE 3702:Introduction to Environmental Engineering
- CE 3703:Environmental Engineering Design

- CE 3704:Introduction to Environmental Engineering Laboratory
- CE 4371:Environmental Engineering Laboratory

Required Environmental Engineering Depth Courses (9 Credit Hours)

Select any three (3) courses from the following:

- CE 4343:Solid Waste Engineering
- CE 4353:Air Pollution Control
- CE 4363:Environmental Engineering Chemistry
- CE 4373:Environmental Engineering Microbiology
- CE 4383:Sustainability for Engineers
- CE 4708:Hazardous Waste Engineering

Required Program Total (17 Credit Hours)

Industrial Engineering Technology - Quality Principles Minor

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/minor-quality-principles.php>

Phone: (470) 578-7243

Email: iet@kennesaw.edu

Program Description

To be eligible for a Minor in Industrial Engineering Technology (IET) Quality Principles, the student must complete the following courses. This minor is offered by the Department of Systems & Industrial Engineering.

Student outcomes (depending on choices of classes taken)

1. To prepare graduates with the fundamentals of quality principles
2. To apply statistics toward quality cases (IET2227)
3. To apply control systems to measure quality (IET3339)
4. To design quality systems with quality concepts learned (IET3356)
5. To understand the application of six sigma principles with lean manufacturing (IET3407)
6. Be capable of managing a quality systems project (IET4135)
7. Be capable of applying operations management & research (IET4151, IET4405)
8. To prepare students with the foundation for lifelong learning

Requirements

- IET 2227:Introduction to Statistics
- IET 3339:Statistical Quality Control
- IET 3356:Quality Concepts and Systems Design
- IET 3407:Six Sigma and Lean Manufacturing

Choose one from the following:

- IET 3403:Advanced Statistics with Application
- IET 3410:Principles of Team Dynamics
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4135:IET Project Management
- IET 4151:Operations Management for Engineers

Program Total (15 Credit Hours)

Notes: A minimum GPA of 2.0 in the courses used for the minor is required.

Industrial Engineering Technology Logistics Minor

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/minor-logistics.php>

Phone: (470) 578-7243

Email: iet@kennesaw.edu

Program Description

To be eligible for a Minor in Industrial Engineering Technology (IET) Logistics, the student must have a major (not IET) and complete the following courses. This minor is offered by the Department of Systems & Industrial Engineering.

Student outcomes (depending on choices of classes taken)

1. To prepare graduates with the fundamentals of logistics and supply chain management
2. To apply statistics toward logistics cases (IET2227)
3. To become familiar with the purpose and operations of warehousing systems (IET3620)
4. To apply advanced statistics toward logistics cases (IET3320)
5. To apply sustainability toward logistics scenarios (IET3511)
6. Be capable of managing a logistics project (IET4135)
7. Be capable of applying operations management & research (IET4151, IET4405)
8. To prepare students with the foundation for lifelong learning

Requirements

- IET 2227:Introduction to Statistics
- IET 2449:Logistics and Supply Chain Management
- IET 3320:Advanced Logistics
- IET 3620:Warehousing Systems

Choose any One Course from the Following:

- IET 3410:Principles of Team Dynamics
- IET 3403:Advanced Statistics with Application
- IET 3511:Sustainability Engineering

- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4115:Human Resources Management for Engineers
- IET 4135:IET Project Management
- IET 4151:Operations Management for Engineers

Program Total (15 Credit Hours)

Note: A minimum GPA of 2.0 in the courses used for the minor is required.

Industrial Engineering Technology Minor

Contact Information

Website: <https://engineering.kennesaw.edu/systems-industrial/degrees/minor-eng-tech.php>

Phone: (470) 578-7243

Email: iet@kennesaw.edu

Program Description

To be eligible for a Minor in Industrial Engineering Technology (IET), the student must have a major and complete 10 credit hours of required courses and 6-8 credit hours from the list below. This minor is offered by the Department of Systems & Industrial Engineering.

Student outcomes (depending on choices of classes taken)

1. To prepare graduates with some fundamentals of industrial engineering technology (IET2305)
2. To apply the knowledge of statistics in engineering technology problems (IET2227)
3. To apply control systems to measure quality (IET3339)
4. To understand the application of quality principles with lean manufacturing (IET3407)
5. Be capable of applying operations research (IET4405)
6. To design manufacturing facilities with material handling equipment (IET4422)
7. To apply advanced statistics when necessary (IET3403)
8. To apply sustainability in industrial situations (IET3511)
9. To prepare students with the foundation for lifelong learning

Complete the following three courses:

- IET 2227:Introduction to Statistics
- IET 2305:The Role of Industrial Engineering Technology in Industrial Systems
- IET 3356:Quality Concepts and Systems Design

Choose Two Courses from the Following:

- IET 2449:Logistics and Supply Chain Management
- IET 3322:Work Measurement and Ergonomics
- IET 3339:Statistical Quality Control

- IET 3403:Advanced Statistics with Application
- IET 3407:Six Sigma and Lean Manufacturing
- IET 3410:Principles of Team Dynamics
- IET 3424:Engineering Economy
- IET 3511:Sustainability Engineering
- IET 4405:Operations Research - Concepts, Models and Methods
- IET 4422:Facilities Design, Plant Layout, and Materials Handling

Program Total (16-18 Credit Hours)

Note: An overall 2.0 GPA is required in the courses for the IET Minor (excluding the international studies minor courses).

Manufacturing Engineering Technology Minor

Contact Information

Website: <https://engineering.kennesaw.edu/engineering-technology/degrees/minor-manufacturing-tech.php>

Phone: (470) 578-7274

Email: eet@kennesaw.edu

Program Description

There are approximately 9,500 manufacturing companies in the state of Georgia alone. A minor in Manufacturing Engineering Technology gives students the skill set to become successful Manufacturing Engineers, a profession with excellent starting pay and highly sought after by companies. Not only do students learn and apply different manufacturing processes, they gain valuable knowledge in project management and Six Sigma & Lean Manufacturing.

Note: Not available to MET students with a concentration in Manufacturing

Required

Students must take the following three courses:

- MET 1311:Manufacturing Processes
- MET 1800:CNC and Machining
- MET 2800:CNC Programming

Electives

Select three additional courses from the following:

- EDG 4224:Engineering Design Graphics for Custom Manufacturing
- IET 3407:Six Sigma and Lean Manufacturing
- IET 4135:IET Project Management

- MET 3331:Tool Design
- MET 3332:Rapid Design and Manufacture
- MET 4342:Numerical Control of Machines

Program Total (17 Credit Hours)

Note: Not available to MET students with a concentration in Manufacturing

Mechatronics Engineering Minor

Contact Information

Website: <https://engineering.kennesaw.edu/mechatronics/degrees/minor-mechatronics.php>

Phone: (470) 578-7234

Email: mechatronics@kennesaw.edu

Program Description

This program provides an opportunity for students outside the Department of Mechatronics Engineering to learn robotics and mechatronics courses which add value to their education by obtaining skills that are directly and immediately relevant to employers. The proposed minor program provides an opportunity for Kennesaw State University students to systematically take robotics and mechatronics courses and enhance their background and abilities to find a job in the engineering field.

Engineering Standing Requirements

Required Courses (4 Credit Hours)

- CSE 1321L:Programming and Problem Solving I Laboratory
- MTRE 2610:Intermediate Programming for Mechatronics

Control Systems Requirement (4 Credit Hours)

Choose from one of the following 4 credit selections:

- MTRE 4001:Modeling and Feedback Control of Dynamic Systems
- MTRE 4002L:Feedback Control Laboratory
- or
- EE 4201:Control Systems
- or
- ME 3501:Dynamic Systems & Control Theory
- ME 4501:Vibrations & Controls Lab

Elective Courses (7 Credit Hours)

Any seven additional credits from 3000- or 4000-level MTRE courses

Program Total: (15 Credit Hours)

Naval Science Minor

Contact Information

Website: <https://engineering.kennesaw.edu/nrotc/>

Phone: (404) 385-6307

Email: nrotc@kennesaw.edu

Program Description

The Naval Science minor will familiarize the student with basic and advanced concepts of Naval Science with emphasis on naval history, technology, and leadership. All NROTC students who successfully complete all required credit hours of Naval Science classes will be eligible for the minor. Fifteen credit hours of the NROTC required credit hours will count towards the minor with the correct number of upper and lower division credit completed. All courses are offered exclusively on the Georgia Tech campus.

This minor is only available to students in the NROTC program. Students pursuing this minor may transfer in 100% of their coursework. This program is exempt from the KSU Residency Requirements.

Required Courses (15 Credit Hours)

The minor requires 15 credit hours of course work. A minimum of 9 credit hours must be of upper-division coursework, courses numbered 3000 or above. Courses may be taken in any order, but students are highly encouraged to complete NS 1321 before enrolling in any other courses. Students may not repeat any course for double credit.

- NS 1321:Introduction to Naval Science
- NS 1323:Naval Maritime History
- NS 2321:Naval Leadership and Management
- NS 2323:Navigation
- NS 3323:Evolution of Warfare
- NS 3325:Naval Weapon Systems
- NS 3326:Naval Systems Engineering
- NS 4320:Naval Operations
- NS 4322:Naval Leadership and Ethics
- NS 4333:Fundamentals of Maneuver Warfare

Program Total (15 Credit Hours)

Nuclear Engineering Minor

Contact Information

Website: <https://engineering.kennesaw.edu/nuclear-studies/minor.php>

Phone: (470) 578-7540

Email: engineering@kennesaw.edu

Program Description

The minor in Nuclear Engineering is designed to respond to the critical needs of the nuclear industry for a technical workforce. The Nuclear Engineering minor educates participating students in the Fundamentals of Nuclear Engineering, Nuclear Energy Conversion, Reactor Operation, and Radiation Detection and Protection. Graduates can seek career opportunities in the nuclear industry or pursue a graduate degree in Nuclear Engineering. The minor also provides a competitive edge for those who pursue opportunities outside the nuclear industry, because employers typically recognize the mission critical nature of the nuclear industry and value the discipline that accompanies this particular branch of engineering.

Required Course (3 Credit Hours)

- ENGR 3501: Fundamentals of Nuclear Engineering

Electives (12 Credit Hours)

Select four courses out of the following for 12 credit hours:

- ENGR 3502: Radiation Detection & Measurement
- ENGR 4501: Nuclear Power Generation
- ENGR 4502: Radiation Protection & Health Physics
- ENGR 4503: Nuclear Fuel Cycle
- ENGR 4504: Nuclear Reactor Simulation

Program Total (15 Credit Hours)

Renewable Energy Engineering Technology Minor

Contact Information

Website: <https://engineering.kennesaw.edu/engineering-technology/degrees/minor-renewable-energy.php>

Phone: (470) 578-7274

Email: eet@kennesaw.edu

Program Description

An overall GPA of 2.0 is required in the courses for the Renewable Energy Engineering Technology (REET) Minor.

Requirements

- REET 3550:Introduction to Alternate Energy
Choose four courses from the following:
- REET 2020:Energy Conversion
- REET 3030:Energy Storage Systems
- REET 4100:Solar Photovoltaics
- REET 4110:Solar Thermal Systems
- REET 4200:Wind Power Generation
- REET 4210:Oceanic and Hydropower Generation
- REET 4500:Environmental Aspects of Power Generation
- REET 4510:Sustainable Transportation Systems

Program Total (16-17 Credit Hours)

Wellstar College of Health and Human Services

Baccalaureate

Exercise Science, B.S.

Contact Information

Website: <http://wellstarcollege.kennesaw.edu/essm/>

Phone: (470) 578-7600

Program Description

The Exercise Science program is a scientifically based program designed to prepare competent entry-level Exercise Science professionals in the cognitive (knowledge), psychomotor (skills), and affective (abilities) learning domains. The Exercise Science program offers a diversified program that includes both introductory and advanced coursework, laboratory experiences and the opportunity for practical application of knowledge through community and research based experiences. The program can also be used as pre-professional preparation for post graduate study in exercise science or other health related disciplines including physical therapy, occupational therapy and medical programs. The Exercise Science program is designed to prepare students for appropriate professional organization certifications. For information regarding program admission, please contact the Wellstar College of Health and Human Services Advising Center at <http://wellstarcollege.kennesaw.edu/advising>.

Admission Requirements

Admission to the Exercise Science program is separate from admission to Kennesaw State University. Students must meet the program requirements to pursue this degree program, outlined below.

In order to declare the Exercise Science major, students must meet the following requirements:

- Must have met Kennesaw State University admission requirements.
- Applicants must have a 3.0 cumulative grade point average with a minimum grade of "C" in each required course for admission including BIOL 2221, BIOL 2221L, BIOL 2222, BIOL 2222L, ENGL 1101, ENGL 1102 and ES 2100. No more than two attempts per course will be allowed to earn the degree.
- Admitted students must earn a grade of "C" or better in each required course within the Exercise Science curriculum of which only two attempts per course will be allowed to earn the degree.
- Information regarding the application process can be obtained from the Wellstar College of Health and Human Services Advising Center.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Students must take a two-semester laboratory sequence for Area D2. Students can choose from CHEM 1151/L & 1152/L, CHEM 1211/L & 1212/L, PHYS 1111/L & PHYS 1112/L, or BIOL 1107/L & 1108/L. See the individual degree program requirement section for majors with these requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- BIOL 2221:Human Anatomy & Physiology I
- BIOL 2221L:Human Anatomy & Physiology I Laboratory
- BIOL 2222:Human Anatomy & Physiology II
- BIOL 2222L:Human Anatomy & Physiology II Laboratory
- ES 2100:Physical Activity in Health and Disease
- ES 2200:Safety Training for the Fitness Professional
- ES 2300:Medical Terminology
- ES 2500:Principles of Nutrition

Major Requirements

Exercise Science Core (35 Credit Hours)

- ES 3600:Health Fitness Management
- ES 3700:Strength and Conditioning
- ES 3750:Strength and Conditioning Laboratory
- ES 3800:Biomechanics
- ES 3900:Physiology of Exercise
- ES 4200:Nutrition and Performance
- ES 4300:Physiology of Exercise and Aging
- ES 4500:Physiology of Exercise II

- ES 4550:Exercise Science Laboratory Techniques
- ES 4600:Exercise Prescription
- ES 4650:Exercise Testing
- ES 4700:Clinical Exercise Physiology
One Carry-Over Hour from Area D2

Capstone Experience (3 Credit Hour)

- ES 4900:Senior Seminar in Exercise Science

Major Field Electives (21 Credit Hours)

Select 21 credit hours of BIOL, CHEM, ES, HPE, PHYS, PSYC, SM, IHS. 6 credit hours must be at the 3000-4000 level.

Free Electives (1 Credit Hours)

Any course in the university curriculum.

Program Total (120 Credit Hours)

Health and Physical Education (P-12), B.S.

Contact Information

Website: <http://wellstarcollege.kennesaw.edu/hpe/>

Phone: (470) 578-6216

Program Description

The Bachelor of Science with a major in Health & Physical Education is designed to prepare health and physical education teachers at all grade levels (pre-kindergarten through grade 12). Candidates complete the equivalent of a major in health and physical education and a second major in pedagogical studies with an emphasis on teaching health and physical education.

Admissions Requirements

The HPE program requires majors to apply for program admission in order to begin coursework in the professional education sequence.

Fall Cohort Admission

In order to be admitted to the Health and Physical Education (P-12) program, majors must apply to both the Bagwell College Teacher Preparation Program and to the Department of Health Promotion and Physical Education. It is recommended that majors arrange to meet with a HPE Faculty Advisor

each semester to assure that are on track to apply for program admission. Both sets of applications are due between **March 1-July 30** for acceptance into the HPE Cohort that begins each fall.

Teacher Education Eligibility Requirements

Admission to the Health and Physical Education (P-12) Program requires application and admission to the Bagwell College Teacher Preparation Program. Information about Criteria for Admission to Teacher Education is available through Bagwell College of Education.

Health and Physical Education (P-12) Eligibility Requirements

In addition to the criteria for Admission to Teacher Education, the Health and Physical Education (P-12) program requires that the following criteria also be met:

1. Completed with a "C" or better: HPS/WELL 1000, HPE 2000, HPE 2050, HPE 2250 and either HPE 1560 or 1580
2. Received a minimum letter grade of "C" in any required HPE major courses
3. Submitted three acceptable faculty recommendations
4. Submitted current completed Course Checksheet and Planned Program of Study. These will be provided by your ESS advisor.
5. Exhibited responsible professional behavior in classes, field experiences and interactions with peers and faculty
6. Demonstrated interest in the field through participation in and contribution to majors' club and/or other professional activities
7. Expressed a desire to enter teacher education through a well-written personal narrative emphasizing experiences relevant to teaching

Application

After formal review of all program application materials, students will be notified of their admission status. Questions regarding HPE Major program admission may be directed to the coordinator: (470) 578-6775, Convocation Center 3045.

APPLICATION INSTRUCTIONS - PLEASE COMPLETE THE FOLLOWING:

- HPE Faculty Letters of Recommendation
- HPE Major Course Checksheet-completed by you and your academic advisor
- HPE Planned Program of Study-completed by you and your academic advisor
- HPE Application

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The Bachelor of Science in Health and Physical Education (HPE) is fully accredited by the National Council for Accreditation of Teacher Education (NCATE), fully approved by Georgia's Professional Standards Commission (PSC) for P-12 teacher certification, and nationally recognized by the National Association for Sport and Physical Education (NASPE). Kennesaw State University is the only program in Georgia nationally recognized by NASPE.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- EDUC 2110: Investigating Critical and Contemporary Issues in Education
- EDUC 2120: Sociocultural Influences on Teaching and Learning
- EDUC 2130: Exploring Teaching and Learning
- HPE 2050: Fundamentals of Teaching Health and Physical Education
- HPE 2250: Functional Anatomy and Physiology
- WELL 2000: Foundations of Health and Wellness

Major Requirements (65 Credit Hours)

HPE Professional Skills (11 Credit Hours)

- HPE 1140: Educational Dance and Gymnastics
- HPE 1560: Introduction to Invasion Target Game Forms
- HPE 1580: Introduction to Striking/Fielding and Net/Wall Game Forms
- HPE 1900: Adventure Education and Facilitation
- HPE 2140: Youth Fitness Development and Assessment

HPE Core (19 Credit Hours)

- HPE 3100: Behavioral and Psychological Aspects of Physical Education and Coaching
- HPE 3200: Motor Learning and Development
- HPE 3250: Family Health and Sexuality
- HPE 3300: Contemporary Health Issues
- HPE 3600: Child and Adolescent Health Issues
- HPE 4340: Applied Kinesiology

Professional Education (P-12) Requirements (35 Credit Hours)

- HPE 2000: Contemporary and Historical Perspectives of Health and Physical Education
- HPE 3450: Curriculum, Instruction & Management for Early Childhood Physical Education

- HPE 3550:Curriculum, Instruction and Management for Middle Grade and Secondary Physical Education
- HPE 3650:Curriculum, Methods and Materials in Health Education
- HPE 3750:Adapted Physical Education
- HPE 4252:Measurement and Evaluation in HPE
- INED 4437:Education for Linguistically Diverse Students
- ITEC 3300:Improving Learning with Technology in High School Classrooms
- HPE 4410:Practicum in Children's Health and Physical Education
- HPE 4430:Practicum in Middle and Secondary School Health and Physical Education
- EDUC 4610:Introduction to the Yearlong Clinical Experience
- HPE 4660:Yearlong Clinical Experience II
- HPE 4650:Yearlong Clinical Experience I in Health and Physical Education (P-12)

Program Total (125 Credit Hours)

Human Services, B.S.

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/swhs/human-services/index.php>

Phone: (470) 578-6630

Email: swhs@kennesaw.edu

Program Description

The Department of Social Work and Human Services is committed to educating culturally competent professionals to develop and deliver high-quality human services locally, regionally and globally, to improve the quality of life of those they serve. This mission evolves from its core values that are derived from the values of the University, the National Association of Social Workers (NASW), the National Organization for Human Services (NOHS), and the Council for Standards in Human Service Education (CSHSE).

The Human Services (HS) major prepares professionals to engage, advocate, and innovate locally, regionally, and globally to improve the lives of peoples and communities. Majors must complete two required field experiences i.e., internships. The foundation internship requires students to demonstrate knowledge, attitudes, and skills acquired in lower-level major courses by completing assignments and experiences in both micro and macro level practice. Students then complete an advanced internship with a focus on the competencies of their chosen concentration.

HS Majors must choose a concentration in Social Engagement and Advocacy (SEA) or Nonprofit Management and Social Innovation (NMSI). Students in the Social Engagement and Advocacy concentration focus on the ability to integrate knowledge and skills related to direct practice with individuals, families, children, and groups. In addition, they are prepared to work in crisis intervention settings. While students who select the Nonprofit Management and Social Innovation concentration develop management, leadership, and administrative competencies to work in nonprofit organizations.

All human services majors graduate with competencies in communication, assessment, advocacy, documentation, community networking, cultural competence, social policy, civic engagement, and professional/career development. These competencies are established by the Council for Standards in Human Service Education (CSHSE). Graduates from the HS program may qualify to take the Human Service Board Certified Practitioner (HS-BCP) exam for becoming a Human Service Board Certified Practitioner (HS-BCP). For additional information regarding the HS-BCP, please contact the Human Services Program Director.

The Department of Social Work and Human Services also supports two certificates: The Nonprofit Management and Social Innovation Certificate in partnership with The Nonprofit Leadership Alliance (NLA) and the Child Advocacy Studies (CAST) Embedded Certificate in partnership with the Zero Abuse Project.

The Certificate in Nonprofit Management and Social Innovation (stand alone and embedded) prepares students for employment, volunteer and leadership experiences in the nonprofit sector. The program requires students to demonstrate ten core management and leadership competency areas. Students also attend a national conference. Students interested in this certificate may enroll by contacting the NLA Campus Executive Director and completing the online application available at <https://wellstarcollege.kennesaw.edu/swhs/nla/>. Completion of the certificate's requirements result in students receiving national certification and credentialing i.e., Certified Nonprofit Practitioner (CNP) by the Nonprofit Leadership Alliance.

The Child Advocacy Studies Embedded Certificate focuses on developing students' understanding of the various factors that lead to child maltreatment, and of various existing responses to incidents of child maltreatment to enable them to work more effectively within various systems and institutions that respond to these incidents. Students completing the courses in this certificate will be competent to work within children-focused agencies and systems (health care, criminal justice, social services) while advocating for children who have survived neglect and abuse. Students interested in this program can find more information and enroll by completing the online application available at <https://wellstarcollege.kennesaw.edu/swhs/cast/index.php>

Admission Requirements

Admission to the Human Services program is separate from admission to Kennesaw State University. Students must meet the program requirements outlined below to pursue this degree program:

- Have and be able to maintain an institutional GPA of 2.0 or better
- Completed the following courses with a "C" or greater:
 1. ENGL 1101 : Composition I or ENGL 1102 Composition II
 2. Any Area D1 Math course (i.e., STAT 1401, MATH 1160, MATH 1190, or MATH 2202)
 3. ECON 1000: Contemporary Economic Issues (in a previous catalog you may have taken ECON 1100 Global Economics)
 4. PSYC 1101: Introduction to General Psychology OR ECON 2100 Microeconomics
 5. SOCI 1101: Introduction to Sociology
 6. HS 2100: Overview of Human Services
 7. HS 2200: Fundamentals of Nonprofit Organizations
 8. HS 2300: Cultural Competence in the Human Services

9. HS 2400: Interviewing Skills for the Helping Professions

Human Services majors must have and maintain a minimum Institutional GPA. of 2.0. Majors must successfully complete all Human Service major courses with a grade of "C" or higher.

After completing the above criteria for acceptance:

- Apply to the Human Services Program using the online application.
- Applications are reviewed using the deadlines listed below.
- Applicants will receive an e-mail response to their KSU email of acceptance or denial upon review.
- Upon notification of acceptance to the major (by email), students must complete the application requirements by notifying the Program Director of his/her acceptance and attending the required major orientation.
- If denied acceptance to the major, students are encouraged to meet with the Program Director, if desired, to review the reason for denial and develop a plan in order to be eligible to reapply to the major.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements. This program recommends the Statistics Pathway.

Lower Division Major Requirements (Area F) (18 Credit Hours)

Module 1 for HS Social Engagement & Advocacy and HS Nonprofit Management & Social Innovation Concentrations

- HS 2100:Overview of Human Services
- HS 2200:Fundamentals of Nonprofits
- HS 2300:Cultural Competence in the Human Services
- HS 2400:Interviewing Skills for the Helping Professions
- SOCI 1101:Introduction to Sociology

- PSYC 1101:Introduction to General Psychology

or

- ECON 2106:Principles of Microeconomics

Major Requirements (48 Credit Hours)

Social Engagement and Advocacy Concentration:

Module 2

- HS 2900:Working with Support Groups
- HS 3000:Foundation Internship
- HS 3100:Poverty and Culture
- HS 3200:Policy & Advocacy

Module 3

- HS 3300:Human Socialization
- HS 3400:Community Intervention
- HS 3500:Research Methods for the Human Services
Major Concentration Elective (choose from list below)

Module 4

- HS 4500:Working with Families
- HS 4600:Working with Children and Youth
- HS 4700:Crisis Intervention
Major Concentration Elective (choose from list below)

Module 5

- HS 4800:Ethics in the Helping Profession
- HS 4900:Capstone Seminar in Human Services
- HS 4950:Advanced Internship for Human Services Professionals

Nonprofit Management and Social Innovation Concentration:

Module 2

- HS 3000:Foundation Internship
- HS 3100:Poverty and Culture
- HS 3200:Policy & Advocacy
- HS 3650:Governance, Advocacy, and Leadership in Nonprofits

Module 3

- HS 3300:Human Socialization
- HS 3400:Community Intervention

- HS 3500:Research Methods for the Human Services
- HS 3600:Program Development and Evaluation

Module 4

- HS 4100:Grant Writing and Fundraising
- HS 4200:Human Resources for Nonprofit Organizations
Major Concentration Elective (choose from list below) Major Concentration Elective (choose from list below)

Module 5

- HS 4800:Ethics in the Helping Profession
- HS 4900:Capstone Seminar in Human Services
- HS 4950:Advanced Internship for Human Services Professionals

Concentration Electives

Choose two from the following courses that are not included in the student's concentration required courses:

- HS 3600:Program Development and Evaluation
 - HS 3650:Governance, Advocacy, and Leadership in Nonprofits
 - HS 3700:Aging and the Family
 - HS 3750:Death, Dying and Bereavement
 - HS 3800:Social Entrepreneurship and Enterprise
 - HS 3850:Introduction to Nongovernmental Organizations and Development
 - HS 3900:Dynamics of Family Violence
 - HS 3950:Perspectives on Child Maltreatment and Child Advocacy
 - HS 3960:Professional and System Responses to Maltreatment
 - HS 3970:Global Child Advocacy
 - HS 4100:Grant Writing and Fundraising
 - HS 4200:Human Resources for Nonprofit Organizations
 - HS 4300:Education Abroad in Human Services
 - HS 4490:Special Topics in Human Services
 - HS 4500:Working with Families
 - HS 4600:Working with Children and Youth
 - MGT 3100:Management and Behavioral Sciences
 - POLS 3343:Principles of Public Administration
 - SOCI 3304:Social Organization
- Cross-listed courses

Free Electives (12 Credit Hours)

Any courses in the university curriculum (in consultation with the academic advisor). Total credits must equal to 12 credits.

Program Total (120 Credit Hours)

Embedded Certificate

Upon completion of the degree requirements and selection of specific courses in either sub-fields, Upper-Division Major Electives, or Related Studies students may earn the following certificates. Students, consult with your academic advisor regarding declaration of a certificate.

Child Advocacy Studies Certificate - Embedded

Integrated Health Science, B.S.

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/hpe/integrated-health-science.php#course>

Phone: (470) 578-6216

Email: ih@kennesaw.edu

Program Description

The Bachelor of Science with a Major in Integrated Health Science will provide a broad-based interdisciplinary degree designed for students interested in pursuing a career in healthcare. To do so, the IHS major will consist of a core group of classes grounded in the basic natural, social and health sciences with a thread of interprofessional education (IPE) and healthcare innovation woven throughout. The IHS major prepares students to become informed and engaged health professionals, able to think critically about health-related issues and work as part of a healthcare team to develop innovative solutions to current and future healthcare issues. Coursework focuses on the core functions of the healthcare system while emphasizing strategies to promote population health. In addition, the curriculum provides a venue for career exploration. The IHS program of study is flexible enough to allow students career options in the healthcare industry or preparation for graduate education in allied health fields.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the Catalog.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- IHS 2100:Introduction to Health Sciences and Professions
- WELL 2000:Foundations of Health and Wellness
- HS 2300:Cultural Competence in the Human Services
- Select any 1000 or 2000 level courses from BIOL, COM, HPE*, ES, FL, HS, PHE, PSYC, SPAN, TCOM, or SOCI for a total of 9 Credit Hours.

*Note: HPE 1000 level courses cannot satisfy Area F requirements.

Major Requirements (30 Credit Hours)

- COM 3320:Health Communication
- ECON 3478:Economics of Healthcare
- HPE 3300:Contemporary Health Issues
- IHS 3240:Fundamentals of Behavioral Health Care
- IHS 4445:Healthcare Innovation
- IPE 4413:Interprofessional Care and Collaboration
- IT 3503:Foundations of Health Information Technology
- SOCI 3380:Society, Community, & Health

- NURS 3330:Health Systems and Health Policy
or
- PHE 3330:Health Systems & Health Policy

- IHS 4760:Integrated Health Science Capstone

Upper Division Major Electives (18 Credit Hours)

Any 3000-4000 level courses with the following prefix: COM, ES, HPE, HS, IHS, LDRS, NURS, PHE, SOCI, PSYC, SM, or TCOM.

For a list of recommended courses, consult an advisor.

Free Electives (12 Credit Hours)

Any course in the university curriculum.

Note: IHS Majors are encouraged to consider a minor or certificate program to fulfill elective requirements.

Program Total (120 Credit Hours)

Nursing, B.S.N

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/nursing/bachelor-science-nursing/>

Phone: (470) 578-6061

Email: nu_admissions@kennesaw.edu

Program Description

The purpose of the Bachelor of Science in Nursing is to prepare graduates for generalist nursing practice. Graduates will be prepared to practice with patients including individuals, families, groups, and populations across the lifespan and across the continuum of healthcare environments. Upon completion of this program graduates will:

1. Synthesize knowledge from a liberal education including social science, natural science, nursing science, and the art and ethics of caring as a foundation for providing holistic nursing care.
2. Implement competent, patient-centered care of individuals, families, groups, communities, and populations along the health-illness continuum and throughout the lifespan within multicultural environments.
3. Utilize leadership skills to critically examine and continuously improve healthcare delivery systems, with emphasis on safety, quality, and fiscal responsibility.
4. Analyze current research and apply conceptual/theoretical models for translating evidence into clinical practice.
5. Apply knowledge and skills in information management and patient care technology in the delivery of quality patient care.
6. Identify the significance of local, state, national, and global healthcare policies including financial and regulatory environments.
7. Demonstrate effective communication skills with an interdisciplinary healthcare team including collaboration, negotiation, and conflict management.
8. Employ principles of health promotion, and disease/injury prevention in providing care to individuals and populations.
9. Assume responsibility and accountability for professionalism, including lifelong learning, and the inherent values of altruism, autonomy, human dignity, integrity and social justice in the practice of nursing.

Admissions Requirements

Admission to the Nursing program is separate from admission to Kennesaw State University. Students must meet the following program requirements to pursue this degree program.

Requirements for students include:

- Annual health history and physical exam
- Immunizations and proof of immunity to specified communicable diseases as required by clinical agencies
- Annual tuberculosis screening (more frequently for some clinical agencies)
- Health insurance
- Certification in health care provider cardiopulmonary resuscitation by the American Heart Association
- Uniforms (must be purchased from designated School of Nursing vendor), stethoscope, and a suitable watch.
- An initial fee of approximately \$400.00 to cover the cost of achievement exams taken during the program, \$15 for professional liability insurance, and \$50 per semester for clinical lab fee.
- Attend mandatory nursing orientation session prior to entry into the nursing program
- Criminal background check and drug screen (cost incurred by student) must be conducted by vendor designated by the School of Nursing. Dismissal from the program may result if student is not capable of meeting clinical agency requirements for criminal background check and/or is found to have a positive drug screen.
- Students' health records will be released to clinical agencies when requested for clinical credentialing. Students enrolled in clinical nursing courses who have not met the above requirements may be administratively withdrawn from courses.

Baccalaureate Program Admission Criteria

- Must be admitted to Kennesaw State University and have a KSU ID and email address.
- All nursing students must complete the Regent's requirements prior to admission to the nursing program.
- The following prerequisite courses must be completed prior to beginning the Nursing program: ENGL 1101, ENGL 1102; MATH 1101 or MATH 1111, STAT 1401; CHEM 1151, CHEM 1151L, CHEM 1152, CHEM 1152L; BIOL 2221, BIOL 2221L, BIOL 2222, BIOL 2222L, BIOL 2261; PSYC 1101, PSYC 2103; and SOCI 1101.
- Applicants must complete seven of the prerequisite requirements to be considered for admission, and five of the seven must be math and natural science courses. Note: courses with lab component will be considered one prerequisite. Students will receive one calculated grade for the class and lab (weighting the course grade 75% and lab grade 25%).
- Applicants must have a 3.0 cumulative grade point average with a minimum grade of "C" in each required science and mathematics course. In addition, an applicant who repeats two different natural science courses or repeats the same natural science course twice because of grades below "C" within the past 5 years will not be considered for admission to the program.

- To be considered for admission, applicants must not have more than two withdrawals per course from any prerequisite nursing courses on their academic transcripts.

Admission is a competitive process and will be based on a combination of grades received in prerequisite courses required in the program of study and the score received on the TEAS (Test of Essential Academic Skill) exam. Applicants must achieve a minimum of 78 on the TEAS exam and the cost is incurred by the student. The exam can be taken up to 2 times a year. Note: Due to high numbers of applicants, most students accepted have test scores and grade point averages well above the minimum requirements.

Applications for entry into the baccalaureate nursing sequence must be completed by published deadlines.

Decisions regarding admission into the nursing sequence and progression in the program will be made by a nursing admissions committee.

Students who were previously enrolled in a nursing program and not eligible to return to the former nursing program will not be eligible for admission to the KSU Nursing Program.

All applicants must be aware that the state examining board has the right to refuse to grant a registered nurse license to any individual regardless of educational credentials under circumstances of (1) falsification of application for licensure (2) conviction of a felony or crime of moral turpitude; other moral and legal violations specified in the Georgia law.

Transfer Credit for Nursing Courses

In order for any course to be considered for transfer credit, the nursing course must be from an accredited nursing program within the past two years and a grade of "B" or better, received in the course. Nursing courses older than two years will be considered only if the student has been out of the former program for two terms or less and was continuously enrolled in the former nursing program. A letter must be obtained from the School of Nursing Chair/Department Head stating that the student is eligible to return to the nursing program and is in good academic standing. Students who are not eligible to return to their former nursing program will not be able to apply to the nursing program. In addition, students will need to successfully complete a medication calculation test at 90% or better (limited to two attempts) and a nursing skills check-off (limited to three attempts) before beginning a clinical nursing course. Transfers will be considered only if there is an open available space in the Nursing Program.

Progression and Readmission within the Baccalaureate Nursing Program

Criteria for progression to the junior and senior year and graduation from the baccalaureate degree program are as follows:

- Receive at least a "C" in all nursing, natural science and mathematics courses.
- Maintain a cumulative GPA of 2.7.

- A student may repeat only one nursing course (including BIOL 3317). A grade less than "C" in any two nursing courses will result in being dismissed from the program. Students who are dismissed are not eligible to reapply. Students must earn a minimum of "C" in each nursing course and BIOL 3317 to progress.

If a student leaves the program temporarily, whether by choice or because of failure, readmission to the nursing sequence is not guaranteed. Eligible students who drop out of the nursing sequence for any reason will be readmitted to the sequence on a space-available basis. Students will be accommodated in rank order according to their GPA. Students interested in reentry must notify the director in writing of their interest. A student who has a cumulative GPA of less than 2.7 will not be considered for readmission. If a student has been on a leave from the nursing program for more than two calendar years, the student will need to reapply for admission to the program and repeat the entire sequence of required nursing courses.

Admission, Progression, and Retention Decision Appeals

A formal appeal of a decision to deny admission, to delay progression, or to dismiss a student from the WellStar School of Nursing may be made to the Admissions, Progression and Retention Committee within 30 days of notification. Prior to an appeal, students are encouraged to meet with the Associate Director of the WSON for Undergraduate Programs or designee. The committee will review the student appeal, WSON academic and clinical history, and any exceptional or extenuating circumstances. The committee will notify the student of the decision in writing. If a student wishes to appeal the decision of the Admissions, Progression and Retention Committee, a formal appeal must be submitted in writing to the Director of the WellStar School of Nursing or designee within 30 days of receipt of notification of the Committee's decision. The decision of the Director is final.

The program of study in nursing offers the opportunity to obtain a BSN degree. After completion of the degree, and upon the recommendation of the chair, graduates will be eligible to apply to take the National Council Licensure Examination for Registered Nurses (NCLEX) to practice as a registered nurse (R.N.). All applicants must be aware that the state examining board has the right to refuse to grant a registered nurse license to any individual regardless of educational credentials under circumstances of (1) falsification of application for licensure (2) conviction of a felony or crime of moral turpitude; other moral and legal violations specified in the Georgia law.

Core Performance Standards

The WellStar College of Health and Human Services has adopted core performance standards for admission and progression within the nursing major. These standards identify the abilities and skills necessary to perform in an independent manner. If a student admitted to the program believes that he or she cannot meet one or more of the standards without accommodations or modifications, then the student should notify the Chair of the School of Nursing in writing. The nursing program will determine, on an individual basis, whether or not necessary accommodations or modifications can reasonably be made. Core performance standards for admission and progression are contained in the program application, which is available online or from the WellStar School of Nursing.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Accreditation

The baccalaureate degree and master's degree in nursing at Kennesaw State University are accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791.

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

It is recommended Students take STAT 1401 in Area D1.

Students must take a two-semester laboratory sequence in Area D2. Students can choose from CHEM 1151/L & 1152/L, CHEM 1211/L & 1212/L, PHYS 1111/L & PHYS 1112/L, or BIOL 1107/L & 1108/L; Nursing majors are recommended to take CHEM 1151/L & CHEM 1152/L.

Lower division major requirements (Area F) (18 Credit Hours)

- BIOL 2221:Human Anatomy & Physiology I
- BIOL 2221L:Human Anatomy & Physiology I Laboratory
- BIOL 2222:Human Anatomy & Physiology II
- BIOL 2222L:Human Anatomy & Physiology II Laboratory
- BIOL 2261:Fundamental Microbiology
- BIOL 2261L:Fundamental Microbiology Laboratory
- PSYC 1101:Introduction to General Psychology
- PSYC 2103:Introduction to Human Development

Pre-Licensure Students

Major Requirements (51 Credit Hours)

- BIOL 3317:Pathophysiology
- NURS 3209:Theoretical Basis for Holistic Nursing & Health
- NURS 3302:Professionalism and Ethics in Nursing
- NURS 3303:Clinical Pharmacology for Nurses
- NURS 3309:Health Assessment
- NURS 3313:Adult Health Nursing

- NURS 3314:Mental Health Nursing
- NURS 3318:Parent-Child Nursing
- NURS 4402:Nursing Research for Evidence-based Practice
- NURS 4412:Community Health Nursing
- NURS 4414:Complex Health Nursing
- NURS 4416:Leadership in Nursing
- NURS 4417:Advanced Clinical Practicum

Nursing Electives (6 Credit Hours)

Free Electives (3 Credit Hours)

Any course in the university curriculum.

Program Total (120 Credit Hours)

Public Health Education, B.S.

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/hpe/public-health-education/index.php>

Phone: (470) 578-6216

Program Description

The Bachelor of Science in Public Health Education program is offered through the Department of Health Promotion and Physical Education and is based on the Seven Areas of Responsibility for an entry-level health educator delineated by the National Commission for Health Education Credentialing, which represents a comprehensive set of competencies defining the knowledge and skills required of a health education specialist in a variety of job settings (NCHEC, 2006). The program is designed to:

- Prepare students with the knowledge and skills to assess community needs and design, implement, and evaluate public health education programs.
- Focus on improving quality of life and overall well-being of individuals, worksites, and communities through behavioral, environmental, and policy-based initiatives.
- Prepare students for entry to mid-level positions in public health departments, community-based health organizations, outreach education programs, health care settings, private health organizations, and corporate wellness settings as well as advanced studies in Public Health.
- Prepare students to work collaboratively in interdisciplinary teams, patient care coordination, quality improvement for strategic planning and systems redesign, community engagement, community needs assessment, and health coaching.
- Prepare students for the Certified Health Education Specialist (CHES) exam.

Admission Requirements

Admission to the Public Health Education program is separate from admission to Kennesaw State University. Students must meet the program requirements outlined below to pursue this degree. Students should declare the Public Health Education (PHE) Major-Interest through Owl Express > Student Records > Declare or Change Major/Minor. For more information, view the Office of the Registrar Registration Policies.

As a gated program, formal admission into the Bachelor of Science in Public Health Education program is based on the following criteria:

1. Completion of 30 overall course credits including a "C" or better in the following courses: WELL 2000, PHE 2000, and PHE 2100.
2. An Institutional GPA of 2.5 or higher (please note that maintaining a 2.5 GPA is required for continued program admission and entry into PHE 4750).
3. Completion of the online Public Health Education application form, which includes the following:
 - Personal essay that reflects career goals and documentation of up to three hours of public health-related volunteer, extra-curricular, and/or research experience (within the past year - vKSU is a great resource for this).
 - HPE Department Referral
 - Completion of a current Public Health Education course check sheet (which must be signed by your advisor and includes planned courses of study).
 - Appropriate academic and professional behavior exhibited in classes, academic and field-related experiences, and in interactions with peers, faculty, staff, and community members as documented in PHE Student Dispositions, instructors' feedback, and additional documentation when applicable.

The required Bachelor of Science in Public Health Education program application materials should be completed in consultation with the student's assigned academic advisor to review and verify academic records and to plan courses of study.

DEADLINES: Fall Semester is October 1st; Spring Semester is March 1st; Summer Semester is August 1st.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

Health and Nursing Majors: Students must take a two-semester laboratory sequence in either physics, chemistry, or biology. Students can choose from CHEM 1151/L & 1152/L, CHEM 1211/L & 1212/L, PHYS 1111/L & PHYS 1112/L, or BIOL 1107/L & 1108/L. See the individual degree program requirement section for majors with these requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- PHE 2000:Writing and Analysis for Public Health Education
 - PHE 2100:Introduction to Public Health Education
 - PHE 2400:Behavior Theory and Applications
 - WELL 2000:Foundations of Health and Wellness
 - HPE 2250:Functional Anatomy and Physiology
 - HS 2300:Cultural Competence in the Human Services
- One additional hour from General Education Area D2

Program Requirements (42 Credit Hours)

Public Health Education Core (30 Credit Hours)

- PHE 3150:Applied Analytic Techniques in Public Health Education
 - PHE 3400:Disease Prevention and Management
 - PHE 3850:Fundamentals of Program Planning
 - PHE 4200:Introduction to Community and Worksite Health
 - PHE 4300:Environmental Health Issues
 - PHE 4350:Methods of Public Health Education Research
 - PHE 4500:Epidemiology
 - PHE 4600:Program Implementation and Evaluation
 - PHE 4650:Health Coaching and Patient Education
 - PHE 4710:Introduction to Public Health Education Internship
 - PHE 3330:Health Systems & Health Policy
- OR
- NURS 3330:Health Systems and Health Policy

Public Health Education Capstone (12 Credit Hours)

- PHE 4750:Public Health Education Seminar and Internship

Major Related Electives (9 Credit Hours)

Any 2000 - 4000 level courses with the following prefix: PHE, HPE, IHS, IPE, HS, ES, NURS, SOCI, PSYC, COM, ORGC, TCOM

Free Electives (9 Credit Hours)

Any course offered by the university regardless of prefix.

Program Total (120 Credit Hours)

Sport Management, B.S.

Contact Information

Website: <http://wellstarcollege.kennesaw.edu/essm/>

Phone: (470) 578-7600

Email: ESSMAdvising@kennesaw.edu

Program Description

The Sport Management major program is designed for students seeking an interdisciplinary approach to sport and recreation management. The major prepares students for entry into a wide array of career paths within the sport marketplace. Career opportunities include, but are not limited to, marketing of goods and services within professional and amateur sport, management of public and commercial recreation programs and facilities, electronic and print communication positions within sport organizations or sport media outlets and, sales and marketing in the fitness and health club industries. For admission to the program and further information, please contact the ESSM Advising Center office (HS 1003) at ESSMAdvising@kennesaw.edu.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. However, this program does have specific retention criteria outlined below:

Retention criteria

An Institutional GPA of 2.5 and admission to the Sport Management program is required for all Sport Management courses, except SM 2100. The Institutional GPA criterion may be applied to required and elective courses offered by other departments at their discretion. Sport Management majors should be aware that this Institutional GPA must be maintained to progress in the program. If a student's Institutional GPA is below 2.5, the student will be unable to register for any Sport Management courses beyond SM 2100 unless it is the student's second attempt at the the course. In order for a student to progress in the Sport Management program after their Institutional GPA falls below 2.5, the student will need to register for non-Sport Management courses and/or Sport Management courses they have already attempted but for which the student earned a poor grade in

their first attempt. Once the student's Institutional GPA is above 2.5, they will again be allowed to register for all Sport Management courses for which they meet the prerequisites.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Program of Study

General Education (42 Credit Hours)

See listing of requirements.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- SM 2100:Introduction to Sport Management
- SM 2200:History and Contemporary Aspects of Sport
- SM 2300:Legal Aspects of Sports
- SM 2400:Sports Information and Media
- ACCT 2101:Principles of Accounting I
- ECON 2106:Principles of Microeconomics

Major Requirements (36 Credit Hours)

Sport Management Core (24 Credit Hours)

- SM 3100:Sports Sociology and Psychology
- SM 3200:Leadership and Management of Sport Organizations
- SM 3300:Sport Event Management
- SM 3400:Sport Facility Design and Management
- SM 3500:Sponsorship and Fundraising in Sport
- SM 4700:Sports Economics
- SM 4800:Sports Finance
- SM 4900:Senior Seminar in Sport Management

Sport Management Senior Experience (12 Credit Hours)

- SM 4950:Senior Internship in Sport Management

Sport Management Electives (15 Credit Hours)

Select 15 credit hours from the following courses.

- SM 3398:Internship *
- SM 3600:Sports Broadcasting
- SM 3700:International Sport Governance

- SM 3900:Foundations of Recreation and Leisure
- SM 4200:Recreation Programming
- SM 4300:Commercial Recreation and Tourism
- SM 4400:Directed Study *
- SM 4490:Special Topics in Sport Management *
- SM 4600:Research Methods in Sport Management
- SM 4650:Sports Analytics

* repeatable up to 6 credit hours

Free Electives (9 Credit Hours)

Select any 9 credit hours from KSU Curriculum

Program Total (120 Credit Hours)

Certificate

Nonprofit Management and Social Innovation Certificate

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/swhs/>

Phone: (470) 578-6630

Email: swhs@kennesaw.edu

Program Description

Through a partnership with the Nonprofit Leadership Alliance, a national collaborative of nonprofit, academic, and private partners, the Department of Social Work and Human Services offers an academic experience-based approach to preparing students for administrative and leadership roles in the growing nonprofit sector. Students must meet criteria for acceptance into the Nonprofit Leadership Alliance Certificate program (see Campus Executive Director). Completion of this Certificate's requirements can also result in students receiving national credentialing (Certified Nonprofit Practitioner). Certificate program participants acquire an academic and on-the-job education in 10 core competencies: Communication, Marketing, & Public Relations; Cultural Competency & Diversity; Financial Resource Development and Management; Foundations and Management of the Nonprofit Sector; Governance, Leadership & Advocacy, Legal & Ethical Decision Making; Personal & Professional Development; Program Development; Volunteer & Human Resource Management; and the Future of the Nonprofit Sector.

Admissions Requirements

Certificate Requirements

Students must demonstrate completion of:

- Nonprofit Competencies: identified and validated by the nonprofit sector, the competencies outline the knowledge, skills, and abilities; needed to lead and manage a nonprofit organization;
- Internship Experience: 300-hour internship or professional employment with a nonprofit organization;
- Leadership and Service Activities: demonstrated community leadership skills in diverse situations; and
- Baccalaureate Degree or enrollment in a KSU major leading to a Baccalaureate Degree.

Qualifications

Interested students may enroll in this program by contacting the Campus Executive Director of the KSU Nonprofit Leadership Alliance who is housed in the Department of Social Work and Human Services and completing the online application available at wellstarcollege.kennesaw.edu/swhs/. To qualify for the program, students must:

- Earn and be able to maintain an Institutional GPA of 2.5 or higher (or have earned a Bachelor's Degree from an accredited institution);
- Complete the online application, which includes a 150-word personal statement describing his/her interest in the certificate program and how the certificate program will benefit his/her future career trajectory.

For the purposes of credentialing and national certification through The National Nonprofit Leadership Alliance, NLA requires a direct payment of \$100.00 be made for affiliation, certification and credentialing and attendance at an Alliance approved conference, such as Elevate or AFP (with the approval of the Campus Executive Director).

Note: Students who do not affiliate with the National Nonprofit Leadership Alliance Organization can still receive their KSU Certificate in Nonprofit Management and Leadership, but will not receive national credentialing through the Nonprofit Leadership Alliance.

Required Courses (18 Credit Hours)

- HS 2200: Fundamentals of Nonprofits
- HS 3650: Governance, Advocacy, and Leadership in Nonprofits
- HS 4100: Grant Writing and Fundraising
- HS 4200: Human Resources for Nonprofit Organizations
- HS 4950: Advanced Internship for Human Services Professionals

Note: HS 4950 Advanced Internship for Human Services Professionals may be substituted for non-degree seeking students with significant work experience or for non Human Service majors enrolled in an equivalent course through the student's major degree program upon approval by the Campus Executive Director of the KSU Nonprofit Leadership Alliance Certificate Program. * Students enrolling in HS 4950 should register for the nonprofit administration section

Elective Courses (6 Credit Hours)

Select two from the following (or two other courses with approval of the Campus Executive Director)

- HS 3600:Program Development and Evaluation
- HS 3800:Social Entrepreneurship and Enterprise
- HS 3850:Introduction to Nongovernmental Organizations and Development
- HS 4300:Education Abroad in Human Services
- HS 4490:Special Topics in Human Services
- MGT 3100:Management and Behavioral Sciences
- POLS 3343:Principles of Public Administration
- SOCI 3304:Social Organization
- MKTG 3100:Principles of Marketing

Program Total (24 Credit Hours)

Formal Minor

Child Advocacy Studies, Minor

Contact Information

Website: wellstarcollege.kennesaw.edu/swhs/cast/index.php

Phone: (470) 578-6630

Program Description

The Child Advocacy Studies (CAST) minor focuses on experiential, interdisciplinary, ethical, and culturally sensitive content that provides professionals working with children a common knowledge base for responding to child maltreatment. The minor concentrates on developing students' understanding of the numerous factors that lead to child maltreatment and existing responses to child maltreatment. The goal is to prepare students to work effectively within systems and institutions that respond to these incidents. Students will learn about the various disciplinary responses to child maltreatment and develop a multidisciplinary understanding of the most effective responses. Students completing the courses in this program will be better equipped to carry out the work of agencies and systems (health care, criminal justice, and social services) as they advocate on behalf of the needs of children as victims and survivors of child abuse. Students must complete a field placement experience of a minimum of hours.

Admission Requirements

- Institutional GPA of 2.5 or higher
- Updated Resume
- Program Application
- Local Criminal Background Check (Students may contact the local sheriff or police department)

Program Notes:

1. HS 3300: Human Socialization or ECE 2250: Child Development and Early Learning or PSYC 2103: Introduction to Human Development or SOCI 3364: Sociology of the Family serve as the prerequisite course for HS 3950 and HS 3960. Students should complete one of these courses before declaring the minor. Students must make a "C" or better in all courses related to the minor for credit.
2. Students interested in the CAST minor should declare at the beginning of their studies, but no later than after the completion of HS 3950 or HS 3960. Students declaring the minor must also complete the program application
3. Students selecting an elective course not on the approved list must get approval to use the course in their program of study from the CAST Coordinator or the HS Program Director prior to enrolling in the course.
4. A completed criminal background check may be required by the student's proposed internship site. The results of the background check may prohibit placement and lead to the student not being able to complete the minor.

Program of Study

Required Courses (12 Credit Hours)

- HS 3950: Perspectives on Child Maltreatment and Child Advocacy
- HS 3960: Professional and System Responses to Maltreatment
- HS 4950: Advanced Internship for Human Services Professionals or a practicum/internship course in the student's major with preapproval from the CAST Program Coordinator/HS Program Director*

*Students in the CAST program must complete a field placement experience (i.e., internship or externship or coop) of 120 hours. Minors may use a practicum/internship course in their major provided they meet this standard and have the approval of the CAST Program Coordinator/Human Services Program Director prior to beginning the course. Prior approval is needed in order to ensure CAST learning outcomes are met along with the minimum number of hours. If the course is less than six (6) credit hours, then the student can make-up the additional credit hours needed for the minor by completing a second CAST elective(s).

CAST Electives (3 Credit Hours)

Select one of the following:

- HS 3900: Dynamics of Family Violence
- HS 3970: Global Child Advocacy
- HS 4600: Working with Children and Youth
- IPE 4413: Interprofessional Care and Collaboration
- CRJU 4430: Victimology
- PSYC 3340: The Psychology of Family Interaction: A Developmental Perspective
- PSYC 4460: Child Psychopathology

Program Total (15 Credit Hours)

Coaching Minor

Contact Information

Website: <http://wellstarcollege.kennesaw.edu/hpe/>

Phone: (470) 578-6216

Program Description

The Coaching Minor is offered through the Department of Health Promotion and Physical Education. It is designed to prepare future coaches for leadership in a variety of sport settings. The minor includes three (3) foundational classes, along with a minimum of two additional advanced level sport-specific classes in coaching methodology, plus one practicum experience.

Students must have a 2.5 GPA in Coaching Minor coursework to be eligible for the coaching practicum.

Required Courses (9 Credit Hours)

- HPE 3050:Coaching Principles
- HPE 3100:Behavioral and Psychological Aspects of Physical Education and Coaching
- HPE 2300:First Aid/CPR Instructor Training

Advanced Coaching Courses (6 Credit Hours)

Choose two of the following:

- HPE 3055:Advanced Coaching Methods for Basketball
- HPE 3061:Advanced Coaching Methods for Football
- HPE 3065:Advanced Coaching Methods for Soccer
- HPE 3075:Advanced Coaching Methods for Softball
- HPE 3085:Advanced Coaching Methods for Tennis
- HPE 3090:Advanced Coaching Methods for Strength and Conditioning
- HPE 3095:Advanced Coaching Methods for Volleyball

Practicum Requirement (3 Credit Hours)

This is a capstone experience and should be taken as the final requirement for the Coaching Minor.

- HPE 3395:Coaching Practicum

Program Total (18 Credit Hours)

Minor must be declared prior to registering for HPE 3395. HPE 3395 is graded as S (Satisfactory) or U (Unsatisfactory). A 2.5 GPA in Coaching Minor coursework is required to be eligible for the Coaching Practicum

Nonprofit Management and Social Innovation Minor

Nonprofit organizations comprise one of the fastest-growing employment sectors, creating a high demand for graduates with skills to work for these diverse types of organizations. The Minor in Nonprofit Management and Social Innovation offers a unique program of study to students interested in a career, leadership, and/or volunteer experience within the nonprofit sector. Through the minor, students enhance their undergraduate education in nine (9) core competencies including Communication, Marketing, & Public Relations; Cultural Competency & Diversity; Financial Resource Development and Management; Foundations and Management of the Nonprofit Sector; Governance, Leadership & Advocacy, Legal & Ethical Decision Making; Program Development; Volunteer & Human Resource Management; and the Future of the Nonprofit Sector. Students also have the opportunity to engage in career development in the introductory course and the Human Resource Management course. Coursework and co-curricular experiences prepare students for occupations, volunteer experiences, and/or graduate study in nonprofit management, leadership, and social innovation. Students seeking the B.S. in Human Services with a concentration in Nonprofit Management and Social Innovation are not eligible to complete this minor.

Required Courses (9 credits)

Students must complete the required courses for the minor.

- HS 2200: Fundamentals of Nonprofits (Minors should begin with this course)
- HS 3650: Governance, Advocacy, and Leadership in Nonprofits
- HS 4200: Human Resources for Nonprofit Organizations

Elective Courses (6 credits)

Students select 6 credits of elective coursework. Note: Students seeking an elective course not appearing on the list may request a substitution from the Program Director prior to registration of the requested course.

- HS 3600: Program Development and Evaluation
- HS 4100: Grant Writing and Fundraising
- HS 4300: Education Abroad in Human Services
- HS 4400: Directed Study in Human Services
- HS 4490: Special Topics in Human Services
- ACCT 2101: Principles of Accounting I
- ACCT 4600: Governmental and Not-for Profit Accounting
- MKTG 3100: Principles of Marketing
- SOCI 3304: Social Organization
- TCOM 3020: Grants and Proposals
- HS 3850: Introduction to Nongovernmental Organizations and Development

Or

- POLS 3850:Introduction to Nongovernmental Organizations and Development

Program Total (15 Credit Hours)

Nutritional Science Minor

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/essm/>

Phone: (470) 578-7600

Program Description

The online undergraduate minor in Nutritional Science aims to offer students an introduction to the area of human nutrition. In particular, students will gain a foundation of knowledge in nutrient chemistry, food systems, public health policies, nutrition education and the relationships between nutrition, health, disease and the life-cycle. A minor in Nutritional Science will benefit students who intend to pursue a career in food, health, fitness, medicine, hospitality and other health-related professions. Students need to complete 15 credit hours in this minor program, which includes two (2) foundational classes, along with a minimum of three (3) additional advanced level nutrition courses. Students must earn a 'C' or better in all courses for the minor. All prerequisites must be completed in order to enroll in the respective course. Additionally, at least 9 hours of this minor must be non-duplicative with the course requirements of the student's major.

Required Courses (6 Credit hours)

- ES 2500:Principles of Nutrition
- ES 3105:Lifecycle Nutrition

Elective Courses (9 Credit Hours):

Select nine credit hours from the following:

- ES 3300:Food Science
- ES 3420:Food and Culture
- ES 3500:Nutritional Assessment
- ES 4050:Community Nutrition
- ES 4120:Weight Management
- ES 4200:Nutrition and Performance
- ES 4250:Advanced Human Nutrition

Program Total (15 Credit Hours)

Public Health Minor

Contact Information

Website: <https://wellstarcollege.kennesaw.edu/hpe/phe-minor/index.php>

Phone: (470) 578-6216

Program Description

The Public Health (PH) Minor is offered through the Department of Health Promotion and Physical Education and is designed to expose students to the broad field of public health with a focus on understanding the determinants of health, improving quality of life and overall well-being through evidence-based initiatives, and expanding the credentials of students entering health related professions.

The PH Minor includes 15 credit hours of study, 6 credits in the Public Health Minor Core and 9 credits in Public Health Minor Electives.

Required Courses (6 Credit Hours)

- PHE 2100:Introduction to Public Health Education
- WELL 2000:Foundations of Health and Wellness

Minor Electives (9 Credit Hours)

Upper Division PHE Electives (6 Credit Hours)

Select two of the following:

- PHE 3150:Applied Analytic Techniques in Public Health Education
 - PHE 4300:Environmental Health Issues
 - IPE 4413:Interprofessional Care and Collaboration
 - PHE 4500:Epidemiology
 - NURS 3330:Health Systems and Health Policy
- OR
- PHE 3330:Health Systems & Health Policy

Upper Division Electives (3 Credit Hours)

Any one 3000 - 4000 level course with the following prefix: PHE, HPE, IHS, IPE

Program Total (15 Credit Hours)

Institute for Cybersecurity Workforce Development

Baccalaureate

Cybersecurity (eMajor) B.S.

Contact Information

Website: https://cyberinstitute.kennesaw.edu/academics/bs-cybersecurity_emajor.php

Phone: (470) 578-3592

Email: emajor@kennesaw.edu

Program Description

The purpose of the Bachelor of Science with a major in Cybersecurity (BS-CYBR) program is to create technologically capable, business-aware cybersecurity professionals capable of applying technical skills and the knowledge of security management to protect computerized information systems from a wide variety of threats, and to manage the risks associated with modern information technology usage. Cybersecurity is a computing-based discipline involving technology, people, information, and processes to enable assured operations. It involves the creation, operation, analysis, and testing of secure computer systems. It is an interdisciplinary course of study, including aspects of information technology, law, policy, human factors, ethics, and risk management often in the context of adversaries.

The Department of Homeland Security and the National Security Agency have jointly designated Kennesaw State University as a National Center of Academic Excellence in Cyber Defense Education with specialized focus areas in Security Policy Development & Compliance and Systems Security Administration.

The Bachelor of Science with a major in Cybersecurity is a fully online degree that has the primary objective of meeting the high demand for professional degrees in the area of cybersecurity. The degree has core requirements, major requirements, major specializations, and required electives. The major contains those courses considered fundamental to the cybersecurity field and the electives give the student some flexibility in choice.

The Institute for Cybersecurity Workforce Development requires that BS-CYBR candidates must earn a grade of "C" or better in all upper division courses in order to be counted toward their degree.

Admissions Requirements

This program does not have specific admission requirements and only admission to Kennesaw State University is required. For more information, please visit the Admissions section of the catalog.

- Admission to the University will require a 2.5 GPA in 17 units of required high school coursework as recalculated by Kennesaw State.

- Freshmen and Transfer-Freshmen must score an SAT Total Score on a 1600 Scale: 1030 AND SAT Reading Test Score: 25 AND SAT Math Section Score: 490 -or- ACT Composite score of 20 AND ACT English sub-score of 18 AND ACT Math sub-score of 18.
- Other categories of admission have differing requirements as published at <http://admissions.kennesaw.edu/>.

Admission to the BS-CYBR degree program eMajor will be open to any student who has completed (or is scheduled to complete) the General Education and Area F - Lower Division Major Requirements through any recognized and transferrable method. That includes transfer of credit from other Institutions (following KSU policies for transfer of credit), eCore courses documented by KSU, KSU courses taken on campus as well as KSU online courses.

Graduation Requirements

Each student is expected to meet the Academic Policies Graduation Policies and Procedures outlined in the Academic Policies section of the Catalog.

Double Owl Pathway

This program offers a Double Owl Pathway. The Double Owl Pathway is an advising pathway for high-potential KSU undergraduate students who want to accelerate the attainment of a Master's degree at KSU. For pathway options and to learn if you qualify, visit <https://doubleowl.kennesaw.edu/>

Program of Study

General Education Core Curriculum (Areas A-E) (42 Credit Hours)

See listing of requirements.

General Education Core Curriculum Requirements Specific to This Major

Science Majors must take MATH 1113 or higher in Area A2 and MATH 1190 or higher in Area D1.

Science and Engineering Majors must take two four-hour laboratory sciences in Area D2. Students must choose from CHEM 1211/L, CHEM 1212/L, PHYS 1111/L*, PHYS 1112/L, PHYS 2211/L*, PHYS 2212/L, BIOL 1107/L, or BIOL 1108/L.

*Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.

Lower Division Major Requirements (Area F) (18 Credit Hours)

- ACCT 2101:Principles of Accounting I
- ECON 2300:Business Statistics
or
- STAT 2332:Probability and Data Analysis

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CSE 1322:Programming and Problem Solving II
- CSE 1322L:Programming and Problem Solving II Laboratory

- CSE 2300:Discrete Structures for Computing
or
- MATH 2345:Discrete Mathematics
One credit hour carried forward from Area D

Major Requirements (37 Credit Hours)

Upper Division Technical Core (13 Credit Hours)

- CYBR 3123:Hardware and Software Concepts
- CYBR 3423:Operating Systems Concepts & Administration
- CYBR 4323:Data Communications & Networking
- CYBR 4423:Linux/Unix Administration
One credit hour carried over from area D

Upper Division Security Core (21 Credit Hours)

- CYBR 3100:Principles of Cybersecurity
- CYBR 3200:Network Security
- CYBR 3210:Client Systems Security
- CYBR 3300:Management of Cybersecurity in a Global Environment
- CYBR 4200:Perimeter Defense
- CYBR 4220:Server Systems Security
- CYBR 4330:Incident Response and Contingency Planning

Capstone (3 Credit Hours)

- CYBR 4810:Cyber Defense

Upper Division Major Specializations (9 Credit Hours)

All BS-CYBR students are required to take a minimum of 9 credit hours as an upper-level specialization. They must choose one of the following specializations and complete all of the courses listed. The options are:

Systems Security Track

- CYBR 3153:Database Systems

- CYBR 4843:Ethical Hacking for Effective Defense
or

- CYBR 4883:Infrastructure Defense
- CYBR 4350:Management of Digital Forensics and eDiscovery
or
- CYBR 4853:Computer Forensics

Network Security Track

- CYBR 4333:Network Configuration & Administration
- CYBR 4833:Wireless Security
- CYBR 4893:Internet of Things: Applications and Security

Cyber Crime Track

- CRJU 1101:Foundations of Criminal Justice
- CYBR 3305:Technology and Criminal Justice
- CYBR 4305:Technology and Cyber Crime

Major Electives (9 Credit Hours)

Students should choose 9 credit hours from the following:

- CYBR 3220:Global IS Project Management
- CYBR 3223:Software Acquisition and Project Management
Any CYBR prefix course not included in your chosen concentration
- CYBR 3396:Cooperative Study
- CYBR 3398:Internship
- CYBR 4400:Directed Study
- CYBR 4490:Special Topics in Cybersecurity
Any 3xxx or 4xxx IS/ISA/IT/CS/CSE/CRJU course for which the student can meet the prerequisites except certain specific restricted ISA or IT Security course (see an advisor for complete listing)

Free Electives (5 Credit Hours)

Any courses in the university curriculum.

Program Total (120 Credit Hours)

Certificate

Cybersecurity Certificate

Contact Information

Website: <https://cyberinstitute.kennesaw.edu/academic-programs.php#certs>

Phone: (470) 578-2927

Email: cyberinstitute@kennesaw.edu

Program Description

The Certificate in Cybersecurity is designed for students with an interest in the security of computer networks and systems and its application in the expanding field of technology. The certificate program emphasizes the skills and knowledge necessary to protect and inspect systems, and to detect and react to threats to the security of information in those systems.

The certificate requires 15 semester hours (5 courses), and all coursework must be completed with a "C" or better.

Required Courses (15 Credit Hours)

- CSE 1321:Programming and Problem Solving I
- CSE 1321L:Programming and Problem Solving I Laboratory
- CYBR 3100:Principles of Cybersecurity
- CYBR 3200:Network Security
- CYBR 3210:Client Systems Security
- CYBR 3300:Management of Cybersecurity in a Global Environment

Program Total (15 Credit Hours)

Formal Minor

Cybersecurity Minor

Contact Information

Website: <https://cyberinstitute.kennesaw.edu/academic-programs.php>

Phone: (470) 578-2927

Email: cyberinstitute@kennesaw.edu

Program Description

The Minor in Cybersecurity addresses students with an interest in the application of information security controls on information systems. The Minor emphasizes the skills and knowledge necessary to defend networks and systems, and to detect and react to threats to those systems.

The Minor requires 18 semester hours (6 courses), and all coursework must be completed with a grade of "C" or higher.

Required Courses (18 Credit Hours)

- CSE 1321:Programming and Problem Solving I

- CSE 1321L:Programming and Problem Solving I Laboratory
- CYBR 3100:Principles of Cybersecurity
- CYBR 3200:Network Security
- CYBR 3210:Client Systems Security
- CYBR 3300:Management of Cybersecurity in a Global Environment
- CYBR 4330:Incident Response and Contingency Planning

Program Total (18 Credit Hours)

Courses

Accounting

ACCT 2101:Principles of Accounting I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: ENGL 1101 and MATH 1111 or higher; Non-business Majors: ENGL 1101 and MATH 1101 or higher.

A study of the underlying theory and application of financial accounting concepts.

ACCT 2102:Principles of Accounting II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101

A study of the underlying theory and application of managerial accounting concepts.

ACCT 3100:Intermediate Financial Accounting I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grade of "B" or higher in ACCT 2101 and ACCT 2102, and minimum GPA of 2.0

This course focuses on the collection, analysis, and reporting of financial accounting information. The course includes theory and application of financial accounting concepts within the framework of accounting as an information system. The course also covers several technical accounting topics from a preparer's perspective.

ACCT 3200:Concepts in Federal Taxation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grade of "B" or higher in ACCT 2101 and ACCT 2102, and a minimum GPA of 2.0

Focuses on the fundamental principles and concepts applicable to tax liability determination and tax planning, including an introduction to tax research methodology.

ACCT 3300:Accounting Information Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 with minimum GPA of 2.0 and admission to the Coles College

Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A continuation of accounting transaction processing concepts; internal controls and systems analysis and design.

ACCT 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program, approval of the

Career and Internship Advisor (KSU Career Planning and Development), and a grade of "C" or better in ACCT 3100 .

A supervised work experience program for a minimum of two semesters at a site in business, industry or government. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

ACCT 3398: Internship

1-9 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program, approval of the Career and Internship Advisor (KSU Career Planning and Development), and a grade of "C" or better in ACCT 3100.

A supervised credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency. A research paper is required to receive credit. For junior or senior students who wish to participate in an on the job experience in which they may apply their academic training. The work experience may not be with a current employer. The course will be graded on an S/U basis.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

ACCT 4050: Intermediate Financial Accounting II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A continuation of intermediate financial accounting theory and applications, with a focus on detailed technical topics and specialized problems.

ACCT 4100: Advanced Financial Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 4050, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Study of specialized topics in financial accounting, including business combinations, consolidations, and partnerships.

ACCT 4150: Auditing and Assurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 3300, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course teaches audit theory, attestation, and assurance services. It focuses on the concepts of risk, control, evidence, and ethics for financial reporting and internal control purposes.

ACCT 4152:Internal Auditing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 3300, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course covers internal auditing from a broad perspective to gain a further understanding of the internal audit profession as well as governance, risk assessment, controls, and audit concepts that the internal auditors need to know and understand.

ACCT 4200:Advanced Managerial Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Focuses on specialized topics in managerial accounting theory and application.

ACCT 4250:Advanced Taxation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 3200, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A continuation of income tax concepts, types of taxpayers, decision making strategies, tax research and planning, professional standards and ethics, and the relationship and differences between financial and tax accounting.

ACCT 4300:International Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 4050, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Introduction to accounting-related skills, tools, and knowledge sets useful in the context of investment in and management of international enterprises. Covers translation of foreign currency financial statements, accounting for foreign-currency transactions and hedges, comparative accounting and disclosure, ethics and other relevant topics.

ACCT 4350:Accounting Systems Audit and Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 3300, 60 credit hours with a minimum GPA of 2.0, and

admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The study of the control and security of accounting information systems with an auditing perspective. Topics covered include: the quality of information, information technology (IT) audit process, types of IT audits, ethics, fraud, forensic auditing, computer assisted audit tools and techniques, and IT governance.

ACCT 4400:Directed Study

1-3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 3.0, admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course, and approval of instructor and the Director of the School of Accountancy prior to registration.

Special topics of an advanced nature not in the regular course offerings.

ACCT 4490:Special Topics in Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 2.0, admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course, and approval of instructor and the Director of the School of Accountancy prior to registration.

Selected special topics of interest to faculty and students.

ACCT 4550:Accounting Data Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, ACCT 3300 and ACCT 4050, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course. **Concurrent:**

ACCT 4150

Knowledge of and competencies in data analytics has been identified as one of the growing needs for future accountants in all practice fields. This course will introduce students to this topic and have students use hands on analytic tools such as Microsoft Access and other data analysis software.

ACCT 4600:Governmental and Not-for Profit Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Study of accounting and reporting practices for state/local governments and not-for-profit organizations. Course includes consideration of current events and other topical issues related to governments and not-for-profit organizations.

ACCT 4700:Valuation of Closely Held Businesses

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100 and ACCT 3200, FIN 3100, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The study of fundamental concepts and valuation methods used to value a closely held business when there is no established market price. When determining the future benefit stream of a business entity and the associated risk, concepts from finance, economics, accounting and taxation will be incorporated.

ACCT 4800:Fraud and Forensic Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 3100, 60 credit hours with a minimum GPA of 2.0, and admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will introduce students to a variety of fraud topics, including occupational fraud and fraudulent financial reporting. In addition, the students will explore the foundations of forensic accounting, including fraud examination techniques. The course uses a mix of articles, cases, and classroom discussion.

African and African Diaspora Studies

AADS 1101:Introduction to African Diaspora Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides a developmental introduction to the interdisciplinary origins and methods of African and African Diaspora Studies (also known as Black, Africana, African American, and Pan-African Studies). Students compare and contrast historical, cultural, economic, and social phenomena in Africa to African-descended people in the Americas, Europe, Oceania and Asia. Students learn about African and African Diaspora Studies as a field of intellectual inquiry and key contributions of pioneers from a variety of disciplinary backgrounds.

AADS 1102:Issues in African and African Diaspora Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an overview of key concepts, problems, themes, strategies, and methods of African Diaspora Studies (also known as Black, Africana, African American, and Pan-African Studies). Students explore recent political, economic, and social problems facing the African Diaspora, especially issues of race, class, gender, religion, and ethnicity. Students learn how Africana Studies alumni have used their expertise in addressing these issues and how the discipline is relevant to their own career path.

AADS 2200:Black Thought Matters

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers an introduction to Black Political Thought. It analyzes traditions and trajectories of Black intellectual discourse during the 20th Century. Emphasis is placed on foundational texts in the field of Black Studies, yet students will engage with a range of works representing the diversity of Black thought in the 20th Century. This course examines the goals, viewpoints, and strategies of various intellectuals, social movements, and other political voices from the African Diaspora.

AADS 2250:Careers in African and African Diaspora Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to occupations and job opportunities in the public, private, and non-profit sectors relevant to the field of AADS. Students engage in exercises designed to assist in successful progression in and completion of the AADS major. Topics include an overview of the AADS undergraduate major, career options relevant to AADS, preparation for employment with a bachelor's degree, and preparing for and succeeding in graduate school.

AADS 3200:Race and Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course examines technology as a factor in historical change, emphasizing the role of tools, machines, and systems in revolutions, culture, politics, and economics in Africa and the African diaspora. Students engage historiographical debates and readings on the relationship between race and technology in the recent and distant past. More broadly, students develop a critical understanding of the role of race inquiry in technological knowledge through biographies, case studies, and primary source documents.

AADS 3300:Black Popular Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a critical analysis of popular culture in the US, the Caribbean, African, and/or other region in the African diaspora. A particular offering of the course could focus on a specific area of popular culture in film and/or media (e.g., books, music, sports, language, food, mass consumption or advertising) or a survey several of those topics.

AADS 3310:Introduction to Hip Hop Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course is an introduction to Hip Hop Studies. Students will learn the pillars of Hip Hop, map its development from an urban youth culture in New York to a global phenomenon, and use Hip Hop to

interrogate shifting ideas of race, gender, and identity in the 20th and 21st centuries. Through an interdisciplinary framework consisting of readings (both critical and creative), music, film, and television, students investigate the implications of the commodification and consumption of Hip Hop Culture.

AADS 3380:Study Abroad

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or Senior status and permission of the instructor.

This course fulfills the study abroad requirement of the B.A. in African and African Diaspora Studies. The content of the course varies depending on available course offerings, but focuses on locations in Africa or locations significantly influenced by the African Diaspora.

AADS 3398:Internship

3-6 Credit Hours

Prerequisite: Junior or Senior status and permission of the instructor.

This course is an out-of-the-classroom structured experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of faculty and the internship supervisor. Internship sites must be secured in advance of the semester of the placement and must be approved by the instructor and internship coordinator.

AADS 3400:Black Activism in Brazil

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course examines Black Activism in Brazil. The course reviews the history of resistance of Black Brazilians to racism, from slavery to contemporary Brazil. The course also examines the intersections of Black Social Movements with other social movements based on race, gender, and social class. The course analyzes the connections between Black Social movements and Civil Rights and other anti-racist movements in various parts of the African Diaspora, especially the United States.

AADS 3440:Black Biography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course introduces the personal narrative as an interdisciplinary approach to researching the global black experience. We examine a range of types and categories in biographical writing including autobiographies and memoirs, political and historical biographies, fugitive and captivity narratives, and fictional biographies.

AADS 3500:The Black Woman

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to the experiences, theoretical contributions, and representations of Black women in the United States from feminist, literary, historical, and psychological perspectives. Students learn: (a) the impact of racial and gender oppression in the lived experiences of Black women historically and contemporarily; (b) the various ways Black women have coped with and resisted their oppression; and (c) the intersectional effects of class and sexual identity on Black women's lives.

AADS 3510:Black Women Writers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a comparative study of literature by Black women writers from the U.S., the Caribbean, Africa, and/or any region in the African diaspora. Readings for the course may include poetry, short fictions, novels, drama, biography, and autobiography. Topics include narrative strategies, modes of representation, and textual depictions of the intersections of race, gender, sexuality, ethnicity, class, nationality, and/or generation.

Note: This course may be crosslisted with ENGL 3510

AADS 3520:Black Masculinities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course introduces students to the experiences, theoretical contributions, and representations of Black men and masculinities in the U.S. from social science, literary, and historical perspectives. The course pays particular attention to: (a) the intersection of race, gender, sexuality and class for Black men historically and contemporaneously; (b) the various ways that Black men cope with and resist their oppression c) the various ways that Black men create new masculinities.

AADS 3550:Black Women's Health

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

Black women have poorer health outcomes on a variety of psychological and physical measures compared to other groups such as Black men, White men, and White women. This course focuses on why this is by examining the interlocking systemic, interpersonal, and individual stressors shown to negatively impact Black women's health (e.g., gendered-racism). Students also explore and engage in evidence-based techniques that protect and enhance wellbeing in a variety of populations, including Black women.

AADS 3780:Trends in African and African Diaspora Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

This course focuses on current trends, issues, problems, and strategies in the field of African and African Diaspora Studies (also known as Black, Africana, African American, and Pan-African

Studies). Particular attention is paid to how socio-demographic variables, such as race, gender, class, religion, and/or ethnicity impact the issues facing the African Diaspora.

Notes: The course may be repeated with a change of content.

AADS 4031:Black Panthers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

Black Panthers is an in-depth interdisciplinary examination of figures and issues of the black radical imagination using the Black Panther Party and the Marvel Comics superhero Black Panther. Through the discussion of film, music, comics, and other texts, students learn how historical, political, cultural, and community-based models of the Black Panther party and superhero are applied to a variety of fields of study, careers, and projects for social change.

AADS 4040:Major Issues and Figures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers an in-depth examination of a major issue or figure relevant to the field of African and African Diaspora Studies (also known as Black, Africana, African American, and Pan-African Studies).

Notes: The course may be repeated with a change of content.

AADS 4100:Directed Applied Research

0 Class Hours 1-6 Laboratory Hours 1-6 Credit Hours

Prerequisite: ISD 3100 or approval of the instructor and department chair

This course offers students the opportunity to investigate AADS-oriented concepts and issues by participating in faculty-supervised research or scholarship. Course content and instructional methodologies are determined by the faculty member in discussion with the student.

AADS 4400:Directed Study in AADS

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: ISD 3100 or approval of the instructor and department chair.

This course is offered to students interested in investigating special topics and seminars external to regular course offerings. A maximum of 3 hours of AADS 4400 may be used toward satisfying the upper-division major requirements in the AADS degree program.

AADS 4490:Special Topics in African and African Diaspora Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

A study of selected topics of interest to faculty and students relevant to the field of African and

African-Diaspora Studies (also known as Black, Africana, African American, and Pan-African Studies).

Notes: The course may be repeated with a change of content.

AADS 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISD 3100 plus 21 hours of upper level courses or permission of instructor

A capstone course in which students connect and integrate learning from AADS and other courses that they have taken in their concentration, explore the deeper issues in the discipline, research and write a senior thesis, and make a technology-assisted presentation of their findings to a committee of AADS faculty.

AADS 4500:Power, Privilege, and Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course explores how to transform grassroots social movements into sustainable institutions with organizational, political, and policy objectives. The aim of the course is to bring marginalized perspectives to the challenges facing activists and policymakers. In this course, students foster more awareness on how interdisciplinary strategies and grassroots collaborations can bring about sustainable social change.

AADS 4550:Black Genocide

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course provides students with a scholarly examination of violence imposed on the African Diaspora with a focus on the Black populations in both the United States and Brazil. Students investigate how Black lives can matter. Students examine cases of police violence, the dynamics of incarceration, racial segregation, and dehumanization to sustain class discussions. The course challenges students to make connections between local, national and global trends in the African Diaspora.

American Studies

AMST 1102:American Identities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores what it means to be "American." Examining "American Identities" from local and global perspectives, and through a variety of disciplinary frameworks, this course focuses on the diverse forms of "American Identity," as well as the social and cultural histories that have shaped these identities. Students examine their own and others' identities. Students gain knowledge and skills related to intercultural relations through various methods that include research, reading, writing, performance, and class activities.

AMST 3700:American Studies: Principles and Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

What is American Studies? And what does it mean to study America? To answer these questions, this reading, writing and discussion based course introduces students to the field of American Studies: the interdisciplinary study of American cultures. The course critically examines the meaning and culture of America locally and globally, using a wide variety of readings and activities from multiple academic disciplines and popular culture.

AMST 3710:U.S. in the World

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Examines "America" as a cultural signifier that circulates around the world. These representations not only travel to other countries, but also return to us in cultural products from other countries. In addition to cultural theory, we will look at film, television, literature, and music. A primary concern is to interrogate what ideological assumptions underlie our notion of what "America" means.

AMST 3720:America and Empire

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course critically examines imperialism and colonialism in the Americas. Possible course topics include: U.S. imperial projects, global assertions of U.S. power, European colonization of the Americas, or Indigenous Peoples' resistance to empire. We will read across disciplines, pulling from an array of methods and materials, to understand "America" in relation to colonial and imperial ideologies and movements.

AMST 3730:Introduction to Native American Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course serves as a broad overview of Native American cultures, history, and contemporary issues, with an emphasis on multidisciplinary approaches to the field. Students learn about Native America through a variety of perspectives and topics, including the relationship between Native nations and the U.S. government, questions of tribal identity and belonging, and Indigenous cultural productions, ranging from traditional stories to contemporary texts. Given KSU's location, special attention is paid to southeastern tribes.

AMST 3740:American Popular Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Critical analysis of popular culture in American society. A particular offering of the course could focus on a specific area of popular culture (e.g., books, music, sports, food, mass consumption or

advertising) or survey several of those topics. Historical and theoretical readings will support students' analysis of primary texts, including examples highlighting the globalization of American popular culture, mass markets and niche markets, the social formation of taste, and shifts in society's preferences for mass consumption in different time periods.

Notes: Course may be repeated for credit provided the content differs entirely from the previous offering.

AMST 3750:Place in American Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers a thematic study of the cultural, social, and economic patterns of American places using texts and methods from a variety of disciplines such as history, literature, and sociology. Employing the techniques of critical reading and historical analysis, students interrogate texts ranging from contemporary prize-winning novels, film and media representations, to primary historical documents to gain a fuller understanding of both the place studied and the significance of "place" in culture.

Notes: Course may be repeated for credit provided the content differs entirely from the previous offering.

AMST 3760:Advanced Studies in American Identities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Examines the construction of individual identities and identity groups in American culture. Students survey and critique a range of texts expressing and representing the formation of identity constructions around such categories as race, gender, ethnicity, national origin, class, and sexuality. Students consider the various historical, cultural and social forces that shape (and sometimes resist) diverse views of American identity both within and outside the U.S.

Notes: Course may be repeated with a change in content.

AMST 3770:American Cultural Productions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Examines the production, interpretation, performance, circulation, and contestation of cultural practices and activities that produce ideas and beliefs about "America." The course may focus on a particular cultural product (e.g., the suburbs) or cultural productions related to a particular historical period (e.g., the Great Depression) or to another discrete category (e.g., racial productions).

Notes: Course may be repeated with a change in content.

AMST 3780:American Cultural Movements

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Examines the history of and relationships between selected cultural movements in the United States through an interdisciplinary lens. Drawing primarily on historical resources and cultural texts, the course analyzes the evolution and conduct of movements or of a particular major movement, as well as the evolution of academic inquiry and understanding of these movements.

Notes: Course may be repeated with a change in content.

AMST 4490:Special Topics in American Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

A study of selected special topics of interest to faculty and students.

Notes: Course may be repeated for credit provided the content differs entirely from the previous offering.

Anthropology

ANTH 1102:Introduction to Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to anthropology's four major subfields: biological anthropology, archeology, cultural anthropology, and linguistics.

ANTH 2210:Archaeological Discoveries and Debates

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course presents key discoveries and contemporary debates in archaeology and provides an overview of archaeological societies in the New and Old World. Students examine representative sites, artifacts, and important moments in the human past and learn how archaeologists piece together evidence to tell the story of humanity.

ANTH 2220:The Anthropology of Death

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

In this course, students examine how anthropologists have looked at the topic of death from a multitude of perspectives. Students explore the importance of death to the field of anthropology and also use it as a lens to examine American attitudes toward and rituals surrounding death.

ANTH 2223:The Human Skeleton

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores human osteology, or the study of the human skeletal system. We cover bone biology, anatomical terminology, bony landmarks, and bone variation to examine topics such as the anthropological use of the skeleton in forensic, genetic, and bioarchaeological contexts.

ANTH 2777:Anthropology of Tourism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to anthropological explorations of tourists and tourism. It enables students to understand the deep cultural impact of contact through reading historical and contemporary ethnographic works of tourism and tourists, and their respective impacts on cultures and identities.

ANTH 3300:Anthropological Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3307 and any two of ANTH 3301, ANTH 3303, ANTH 3305

This course surveys the historical development of anthropological theory. It emphasizes the major theories and theoreticians in the discipline of anthropology and their importance for understanding contemporary anthropological research.

ANTH 3301:Human Origins

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to the evolutionary origins of humans. Major topics include evolutionary theory, primate behavior and taxonomy, the fossil record of human and non-human primate evolution, and the interaction of culture and biology as it relates to human evolution.

ANTH 3303:Introduction to Linguistic Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102

Languages constitute the social life and cultural practices that anthropologists study. This course introduces the student to anthropological approaches to the study of language use, which is distinct from a linguist's approach to language. Students learn how languages shape and reflect our thoughts and identities. Students examine the complex world of meaning-making, which form the fundamental component of our social, political, economic, and cultural life.

ANTH 3305:Principles of Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Archeology is the subfield of anthropology that has as its goal the understanding of the human past by studying the material remains that people leave. This course covers the history, goals, methods, and theoretical base of current technology. Cultural resource management is introduced as well.

ANTH 3307:Cultural Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course presents the comparative study of human cultures and societies through the use of cross-cultural analysis of human behavior and case studies. Major foci are comparisons between universal and culturally relative aspects of human behavior, comparative social organization, cultural change and adaptation, and contemporary global cultural problems.

ANTH 3310:Cultural Diversity in the U.S.

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The interrelated issues of culture, race, ethnicity, identity, gender, and social stratification in American society are examined through a holistic and comparative perspective with an emphasis on the examination of case studies.

ANTH 3315:Indigenous Peoples of the Southeast United States

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An examination of the culture of the prehistoric, historic and contemporary Native Americans of the Southeastern U.S. including the Mound Builders, Cherokees, Creeks, Choctaws, and Seminoles.

ANTH 3320:Methods in Biological Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3301

This course explores the discipline of physical (biological) anthropology through intensive reading and lab-based research. We cover current topics of study in some of the major subfields such as human biology, primate evolution, osteology, paleoanthropology, and bioarchaeology.

ANTH 3321:Indigenous Peoples of North America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course presents the study of contemporary issues affecting Native American peoples through a survey of traditional cultures and culture change.

ANTH 3335:Archaeology Field Techniques

3-6 Credit Hours

Prerequisite: ANTH 3305

This course is an archaeological field course designed to teach students the skills and techniques of modern archaeological survey, excavation, and laboratory analysis. The site of the local field school varies from year to year, but the international opportunity is an archaeological site in Belize, Central America. Contact the professor prior to registration for the determination of credit hours.

ANTH 3340:Religion, Magic, and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3307

This course examines the anthropological approach to religion and magic, which privileges local religious experiences and practices and places them in socio-cultural context. This course encourages students to consider the roles that religions play within broader adaptive systems, and how religions alternately promote both cultural stability and cultural change. Cosmologies, religious systems, and magical systems of thought are explored from an anthropological perspective.

ANTH 3345:Food and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3307

This class takes a global look at the social, symbolic, and political-economic roles of food, including how people in different cultures and environments throughout history define themselves through their foodways. The course explores a cross-cultural range of identities and socialities built through food production, preparation, and consumption, and how these change over time.

ANTH 3350:Cultures and Societies of the World

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3307

A comparative survey of culture and social organization in various regions of the world with a focus on contemporary social problems, cultural change and adaptation.

ANTH 3355:Capitalisms and Cultures in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102

This course compares and contrasts various forms of capitalisms and cultures in Asia to understand the dynamics of society and political life. This course enables students to develop a global perspective on critical issues that concern policymakers, business-strategists, development-workers, and academics from an anthropological perspective. Students compare and contrast various forms of capitalism in Asia from an anthropological vantage point for understanding dynamics of society and political life in Asia.

ANTH 3360:Anthropology and Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3307

This course introduces students to methods, theories, and topics in African historical and contemporary anthropology. Particular emphasis is placed on how people from the West have encountered and come to understand African peoples and vice versa. This course examines how the colonial encounter helped structure methodological and conceptual formulations in anthropology and

subsequent critiques and revisions. It also examines many contemporary African issues through the lens of anthropology.

ANTH 3365: Afro-Brazilian Culture and Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores the Afro-Brazilian experience in multi-racial Brazil, where the majority of the population is of African descent. This course focuses on how Afro-Brazilian culture, politics, music, samba, capoeira (martial arts), carnival and religion have impacted and often defined Brazilian society and culture. The course also focuses on Brazilian racial identity, social movements and racism. Brazil is constantly situated within the African Diaspora.

ANTH 3375: Engaged Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102

Although archeology is a scholarly subject, it is not divorced from contemporary issues. In this class, students learn the role that archeology plays in various publics and communities. Students identify and engage stakeholders related to an archaeological site and undertake a hands-on project such as developing a heritage management plan or a collaborative excavation plan. Students also evaluate competing interpretations of the past and develop a narrative that incorporates multiple understandings of material culture.

ANTH 3380: Maya Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3305

This course is designed to introduce students to the ancient Maya, whose civilization flourished in the lowlands of Central America between 1000 B.C. and A.D. 1500. It also examines reasons for the rise and fall of classic Maya civilization, including topics such as the development of complexity, settlement, subsistence, art and architecture, ritual and religion, and intellectual achievements.

ANTH 3390: Lab in Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3305

This course introduces laboratory methods through a project-oriented, hands-on format. A major focus of the course is on the inferential processes through which archaeologists recover and understand the past. This course also introduces many of the important principles and concepts that archaeologists use to analyze, manage, curate, and publish artifacts and the data associated with them. In addition, it allows the opportunity to have some hands-on experience with artifacts. Hands-on experiments in class help reinforce the theoretical concepts. Finally, the main goal is for the student to get basic "literacy" with respect to archaeological analysis and develop good lab habits rather than master any particular kind of analysis.

ANTH 3397:Anthropology Practicum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3300, ANTH 4450, 90 credit hours completed, and permission of the instructor.

This course is a structured field-based or on-campus research experience in a supervised setting related to anthropology. Practical experience is combined with scholarly research in the topical area of the practicum under the guidance of a faculty committee. Projects are selected in advance of the semester of the practicum. Students learn to apply research skills in a practical setting.

ANTH 3398:Internship in Anthropology

variable 1-12 Credit Hours

Prerequisite: ANTH 3300, ANTH 4450, 90 credit hours completed, and permission of the instructor.

A structured off-campus experience in a supervised setting that is related to the student's major. Practical experience is combined with scholarly research in the topical area of the internship, under the guidance of an interdisciplinary faculty committee. Sites must be selected in advance of the semester of the internship.

Notes: A departmental internship orientation session is scheduled once a semester.

ANTH 3521:Ethnography of Media: Global Perspectives

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102, or permission of the instructor.

This course examines how media images and usage shape the identities of individuals and groups around the world. Drawing on ethnographic studies done by anthropologists, this course prepares students to see how representations of peoples, places, practices, and events in the media shape our ideas about others and ourselves. Individuals' and groups' relationship with the media is the key element in understanding how people relate to each other within and across cultures and political boundaries.

ANTH 3777:Global Ethnographies of Labor

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102

This course establishes the centrality of labor in understanding social identities and social change around the world. It emphasizes the cross-cultural meaning of "labor." Through ethnographies, it locates the effects of larger global processes like development, war, tourism, and their changing impact on meaning of labor for people's individual and collective identities.

ANTH 3999:Anthropology of Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102

This course introduces students to anthropological approaches to studying gender relationships in various cultural contexts. It familiarizes students with the relationship between feminism and

anthropology. It examines how the research of feminist anthropologists shaped the central theoretical, methodological, and ethical concerns within anthropology. It also emphasizes why ethnographic methods are essential for understanding the complex gender relationships in a globalizing world.

ANTH 4100:Directed Applied Research

1-6 Credit Hours

Prerequisite: Any upper-division anthropology course and approval of the instructor and department chair.

This course offers students an opportunity to investigate anthropologically-oriented concepts and issues by assisting in faculty-led research or scholarship. Course content and instructional methodologies are identified by the faculty's needs and expectations.

ANTH 4400:Directed Study in Anthropology

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Covers special topics and seminars external to regular course offerings. May include original research projects and practicum experiences.

ANTH 4405:Human Variation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3301

This course provides an understanding of the nature and extent of human biological variation, as well as an understanding of how it is studied. The course focuses on two separate yet inter-connected topics: the biological variation that exists within our species, *Homo sapiens*; and the concept of race.

ANTH 4411:Bioarchaeology of Greece

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3301 or ANTH 3305 or ANTH 3350

This course introduces students to the practice of bioarchaeology in Greece from the early 1900's through today. Students trace the development of bioarchaeology from its early roots in typology through the paradigm shift of the New Physical Anthropology to modern scientific analyses of human skeletal remains. Case studies and classic anthropological texts are read and discussed.

ANTH 4420:Lab in Forensic Anthropology

0 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102 or ANTH 3320 and permission of the instructor.

This laboratory class provides an overview to the field of forensic anthropology for undergraduates. Forensic anthropology is an applied field of physical anthropology that seeks to recover, identify, and evaluate human skeletal remains within a medico-legal context. This generally includes the determination of an unidentified individual's sex, age, ancestry, stature, and in many cases, circumstances surrounding death.

ANTH 4421:North American Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to archaeological goals, methods, and interpretation of the prehistory of North America.

ANTH 4422:Archaeology of Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102 or ASIA 3001

This course examines cultural and historical developments in Asia from approximately 10,000 BCE through 1600 CE. Students learn about the rise of complex societies, cities, and states; early economies; empires; and the role of archaeology in modern Asia. Along the way, students engage in major debates that have arisen from competing interpretations of the archaeological record.

ANTH 4423:Bone Biomechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3320

This course examines the mechanical properties of our skeletal organ system. The study of skeletal biology and biomechanics allow anthropologists to understand the function of the skeleton and how it can be used to interpret the lifeways of past peoples. Research from this field is key to the study of paleopathology, prehistoric subsistence strategies, locomotion, and bone trauma.

ANTH 4425:Historical Archaeology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 3305

The course introduces students to methods and issues in American historical archeology. Particular emphasis is placed upon archaeological methods and documentary research, changing gender roles, ethnicity, and technological innovations. Case studies will focus on the South but other regional contexts may also be included.

ANTH 4430:Environmental Anthropology Field Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course exposes students to the field of environmental anthropology as they experience fieldwork in the natural environments of Georgia. The intensive field methods and research approaches in this course allow students to learn how to work as part of an anthropological research team as they examine and evaluate global research issues in environmental anthropology at the local and regional level. The course includes topical lectures, field methods, lab analysis, and interactive team projects.

ANTH 4450:Research Methods in Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Major theoretical ideas and methods used in anthropological research are examined with a focus on applying them in research and practice.

ANTH 4490:Special Topics in Anthropology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Prerequisites will vary with each course. The prerequisites will be listed in the schedule of classes.

Selected topics of interest to faculty and students.

Apparel and Textiles

ATT 1000:Orientation

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Provides ATT students an overall introduction to the apparel industry, career opportunities in the field and the ATT curriculum.

ATT 1150:The History of Fashion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores the history of fashion, designers and businesses from past to present and how understanding the fashion past influences future trends. Historical roles of dress in western civilization along with the cultural, social, and physical evolution are explored.

ATT 1200:Apparel Design Graphics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course covers the fundamentals of vector drawing using Adobe Illustrator and Adobe Photoshop. Students will learn software tools and techniques including drawing tools, path editing, shape manipulation, blending, shading, object layering, technical flats, illustrations, and design and reproduction considerations. Application and principles of computer graphics will be taught and used to create successful projects.

ATT 1300:International Sourcing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Survey of international sourcing strategies including the decision making process, transportation, domestic production, Asia/Europe/Americas operations, foreign investment, foreign purchase, turn time, competitive advantage, communications, full package production capabilities, cultural priorities, political influence, international regulations and alliances, costs, quality, and technology.

ATT 1400:Principles of Merchandising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Merchandising functions are discussed that include developing strategies to have the right merchandise, at the right price, at the right time, in the right amount and at the right locations to meet target customer needs. This course will explore apparel and consumer product strategies and methods used in planning inventory. Issues in wholesaling, retailing, advertising, and promotion will be included.

ATT 2301:Apparel Computer-Aided Technical Design I

2 Class Hours 4 Laboratory Hours 4 Credit Hours

The use of industry standard computer systems to determine the product information for apparel and consumer textile products including source materials, processing and assembly options, pattern development, sizing theory, garment fit and product development. Students will develop a complete set of flat patterns and alternate designs utilizing manual and computer software methods through applied project work. Principles of material utilization, pattern engineering, quality, and final design will be emphasized.

ATT 3100:Fashion Merchandising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 1400

Application of merchandising principles as they relate to buying, problem-solving, retail math and visual presentation using standard industry practices and software. Students will learn how style, color and presentation are major ingredients to successful merchandising producing customer excitement and demand.

ATT 3150:Visual Merchandising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 1400

This course examines the history, visual tools, application, and theory of display techniques used in developing successful visual apparel merchandising. Students learn how to use visual merchandising to entice customers to buy and thereby increase sales.

ATT 3250:Math Applications in Merchandising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 1401 or IET 2227

Students learn the appropriate math applications for planning, controlling and interpreting the merchandising functions. An understanding of sales planning, merchandising factors, assortments, gross margin and their impact on the financial success of an organization are explored.

ATT 3398:ATT Internship

1-12 Credit Hours

Prerequisite: Department Chair Approval

This course is a structured experience in a supervised setting with an industry partner that is related to the apparel, fashion or textile industry. The goal is for students to attain more practical experience while using their acquired academic skills.

ATT 3505:Fabric Formation and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides the student with the understanding of how fabrics are constructed and the fundamentals of fabric design through application software used in industry today.

ATT 3510:Surface Design I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150

This course explores the use of different applications, through various mediums, with woven textiles. Various designs will be taught in this course including printing, dyeing and embroidery.

ATT 3600:Apparel Analysis and Product Development

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 1400

This course discusses the steps involved in apparel product development from concept through delivery will be covered from the perspective of the manufacturer and the retailer. Product creation, design, marketing, merchandising, sourcing and distribution are discussed along with a study of stitch formation and seam application.

ATT 3602:Apparel Computer-Aided Technical Design II

2 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: ATT 2301 and ATT 3505

Manual and computerized pattern grading theory are demonstrated and practiced by students utilizing industry standard digitizing, grading, and marker making systems. Principles and methods used in the preparation, planning, and cutting of fabrics and materials in apparel/textile products are presented including preparatory processes related to fabric cutting. Also presented are basic principles and computer methods of calculating, designing, and making pattern markers for apparel/textile products including yardage, cost estimation, and garment and fabric specifications through applied project work. Laboratory work includes developing cost and quality factors and the operation of equipment for inspecting, marking, shading, fabric defects, spreading, cutting and ply numbering. A systematic appraisal of the factors governing economical fabric use, including: in-depth study of the relationship of pattern make-up to fabric consumption; the impact of width variation to total consumption; and the relationship of all fabric defects to total utilization is presented.

ATT 3800:Fashion Forecasting, Data Analysis & Consumer Trends

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Explore the techniques used in industry today including computer software programs to assist with consumer-driven fashion forecasting. Students will examine how to identify, track, and analyze trends in apparel and consumer products consumption. Both long-range and short-range forecasting strategies will be used for market analysis. Consumer trend research activities involve collection of information from multiple sources on a continual basis for the consumer style selection, color selection, and the fabric and trim market.

ATT 3810:Textiles, Fashion and Career Options

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 3800

This course is an introduction to the history of textiles and the fashion industry. Students will familiarize themselves with employment opportunities within textile and fashion industries while creating a professional portfolio.

ATT 4444:Quality Assurance for Textiles and Apparel

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 3505

This course is designed to introduce the student to the quality aspects fabric and apparel. Quality assurance areas are examined such as materials testing, sampling, sewability and preparing product specifications.

ATT 4490:Special Topics in ATT

1-9 Credit Hours

Prerequisite: Department Chair Approval

This course covers special topics related to apparel, fashion or the textiles such as design, product development, textiles, sourcing, marketing and merchandising. Students may take this course more than once for credit with approval of the department chair.

ATT 4670:Apparel/Textile Business Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 1300 and ATT 2301 and ATT 3602

Evaluation of the comprehensive factors that determine sound business practices for an apparel enterprise. The course explores the targets markets, a business plan, garment costing, product lifecycle, quality assurance and marketing.

ATT 4750:Advanced Design and Product Development

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

Students will examine the fashion industry design techniques through the use of technology in both 2D and 3D applications. The course surveys product development software and presentation methods used in industry today.

ATT 4840:Textile/Apparel Senior Project

1 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ATT 4750

This course is designed to provide the student with integrated knowledge from previous courses. Students are required to use their skills in forecasting, design, merchandising, sourcing and marketing along with the financial aspects of establishing a fictitious company. A formal written report and oral presentation will be evaluated by faculty and industry representatives.

Applied Computer Science

ACST 2301:Problem-Solving and Digital Game Design

3 Class Hours 2 Laboratory Hours 4 Credit Hours

This course is an introduction to programming and problem solving, emphasizing the analysis of problems and design of solutions using a game design engine. Content will also include an introduction to computer game design, with example games and game projects. Concepts covered will include programming logic structures, object-oriented design, prototyping, game design approach, Agile Development, real-time constraints, threaded objects, inter-object communication, object inheritance, alarms, event management, elementary graphics, beta-testing, play-balance, and user-interface design.

ACST 2312:Programming with .NET Framework

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: ACST 2301

This course covers the fundamentals of programming with C# by using Visual Studio and the.NET framework. Topics discussed in this course include programming with the Visual Studio environment, basic syntax of the C# language, classes and objects, Inheritance, Interfaces and abstract classes, program flow and events, generics, collections, graphic applications.

ACST 3330:Data Structures and Database Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L) or ACST 2312

This course covers the fundamental and advanced data structures and database programming techniques. Topics discussed in this course include: Programming with List, Queue, Stack, Hash Table, BST; ADO.NET; Language-Integrated Query (LINQ); Modern ORM tool; and ASP.NET Web Services.

ACST 3340:Modern Languages: Theory, Scripting, R, HPC, Fortran

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACST 3330

Coverage of various scripting languages, the R language, and parallel programming languages will be included. This course introduces the fundamental concepts of programming languages and how languages are translated for execution. Topics will also include variable storage, control structures, linking and binding, and exceptions. Students will study Python, R, ECL, Thor, and Roxie languages.

ACST 3510:Computer Architecture from Foundations to Cloud

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L) or ACST 2312

Coverage will include computer architecture fundamentals, processor architecture, high performance and clustered architectures, and cloud computing. Students will learn the foundations of computer organization and architecture, processor design, instruction sets, system design, cache design, multiprocessor architectures, parallel computing theory, high performance clustered architectures and cloud computing.

ACST 3530:Linux Operating Systems and Networking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACST 3510

This course provides a practical coverage of operating systems and networking by using Linux, a widely used open source operating system. Topics discussed in this course include basic concepts of operating systems, Linux kernel, system management basics, task scheduling, disks and devices, file systems, memory, system boots, basic concepts of networking, networking configurations, networking services, and shell scripts.

ACST 3540:Social Media & Global Computing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L) or ACST 2312

Coverage will include the fundamentals of building systems with new social media technologies and will explore how these technologies affect social, economic and political organization on a local and global scale. Topics will range from social networking, SMS, peer-to-peer networks, content aggregation technologies like portals and mashups, and media sharing functionalities like YouTube and Flickr. Activities will include the development of student designed wikis, mashups, peer-to-peer applications and web services.

ACST 3710:Digital Game Design and Team Project

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L) or ACST 2312 or ACST 2312

This course provides an introduction to digital game design, game engines, multi-player games, and the game development process. Students will develop games individually and in groups. Students will

make formal presentations, formally evaluate game designs and provide beta-testing feedback, and will incorporate beta-testing feedback into their designs.

ACST 4320:Data Warehousing and Mining

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3410

This course covers concepts, techniques, and applications of data warehousing and data mining. Topics discussed in this course include: dimensional modeling, extraction-transformation-loading (ETL), Online Analytical Processing (OLAP), Data Mining Extension to SQL (DMX), Naïve Bayes, Decision Tree, Association Mining, and Clustering.

ACST 4490:Special Topics in Applied Computer Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Prerequisites vary depending on topic.

Special topics of interest to faculty and students.

ACST 4570:Cloud Computing and HPCC Systems Platform

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3410 or CSE 3153

Cloud Computing uses Internet as the platform for the development and delivery of computing technologies. Topics discussed in this course include: cloud computing concepts, cloud computing architecture, Infrastructure as a Service (IaaS), Platform-as-a-Service (PaaS), Software as a Service (SaaS), cloud computing access and implementation, and cloud computing with HPCC Systems.

ACST 4620:Computing Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACST 3530 or CS 3502

This course covers basic concepts and practices in computer and network security. This includes topics such as cryptography, authentication, authorization, secure protocols and principles for developing secure software. Applications will include using security frameworks to develop software and configuring security support systems.

ACST 4850:Interdisciplinary Project and Portfolio Preparation

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: ACST 3340

Students will complete an applied computer science project that encompasses the computer science domain and the chosen domain of the selected concentration area. Students will also prepare and complete an online portfolio of their work, research, and projects appropriate for presentation to prospective employers.

ACST 4851:Applied Computer Science Research Thesis

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Concurrent:

ACST 3340

Students will complete an applied computer science undergraduate research thesis that encompasses the computer science domain and the chosen domain of the selected concentration and minor area in the sciences. A student will work under a thesis committee with a thesis committee chair. Students are encouraged to include a committee member from the minor area.

Architecture

ARCH 1000:Introduction to Architecture

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: ARCH Majors and Minors Only

This course will explore theoretical and practical frameworks that inform architecture. Relevant theoretical and practical issues will be presented and discussed, allowing students to understand how fundamental parameters in design, including formal, spatial, and phenomenal factors, influence decision-making and inform critical thinking. Students shall be introduced to social and ethical stewardship that center on sustainability and socially-engaging designs.

ARCH 1001:Architecture Studio I

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH Majors and Minors Only

This course is the first design studio. Through exercises and projects, it introduces a variety of skills and fundamental principles in design for the beginning student in architecture including but not limited to the following: graphic observations, analysis, and representations, design process, architectural drawing and drafting, model building, and verbal communication.

ARCH 1002:Architecture Studio II

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 1001

This course builds and elaborates upon the skills and subjects introduced in Architecture Studio I by engaging design problems at scales larger than in the previous studio and by investigating more complex problems, including building language and elements. It culminates with a capstone design project that summarizes and measures the learning of the first year, and prepares students for the second year.

ARCH 1011:Accelerated Studio I

0 Class Hours 15 Laboratory Hours 5 Credit Hours

Prerequisite: Acceptance into the Accelerated Program **Corequisite:** ARCH 1000

This course introduces skills and fundamental principles in architectural design, including: graphic

observations, analysis, and representations; two-dimensional and three-dimensional designs, including ordering space and forms; design process; precedent analysis; architectural drawing and drafting; model building, and verbal communication. The framework of the studio is observation, documentation, and analyses through specific filters and conventions. The second component is the notion of thinking through making, in which the engagement with tools, media, materials and techniques would inform design intents and design iterations. The studio will build up the scale and complexity of the projects, culminating in a simple, small-scale structure.

ARCH 1012:Accelerated Studio II

0 Class Hours 12 Laboratory Hours 5 Credit Hours

Prerequisite: ARCH 1011

This course builds upon the design thinking skills developed during the first studio with a focus on design concept development. Building programming, analysis of site conditions, basic building codes and standards are introduced and emphasis is placed on the introduction of materials systems.

ARCH 1241:Design Communication I

1 Class Hours 3 Laboratory Hours 2 Credit Hours

This course offers lecture and practicum providing fundamentals of design communication through principles of drawing conventions and related techniques including orthographic projections, paraline drawings, and perspective construction systems to represent design ideas and built forms. This involves use of manual media, 2D image manipulation and 3D modeling using digital media. The intention of the course is to develop visual literacy through visual thinking and to develop skills to represent objects and simple buildings in both two and three-dimensions.

ARCH 2003:Architecture Studio III

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 1002

This course builds on the design thinking skills developed during first year studios. This course initiates the application of research from site, context and case studies in the design process and emphasizes design concept development. Projects initiate the design of interior and exterior conditions, site design and the architectural design of structural systems.

ARCH 2004:Architecture Studio IV

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 2003

This course continues the development and use of generative design concepts begun in Architecture Studio III with projects of increased size and scope. Building programming and basic building codes are introduced and emphasis is placed on the introductory design of materials and material systems.

ARCH 2013:Accelerated Studio III

0 Class Hours 15 Laboratory Hours 6 Credit Hours

Prerequisite: ARCH 1012

This course concentrates on shaping, organizing, and designing architectural spaces using spatial and compositional strategies derived from site, climate, program, precedent, and architectural case studies. The focus is on the identification and manipulation of the elements of design, understanding spatial relationships between the human body and various spatial systems, immediate site and environmental context in design. Projects may vary from exploration of architectural design vocabularies in built forms to single and multi-function spaces with site constraints.

ARCH 2030:Global Sustainability Strategies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This is a study of International aspects of buildings related to social orientation by looking at design and construction around the world in the context of sustainability and the carbon footprint of how we live. Form factors are discussed and the issues of planning, design and construction explored. The Architect/Engineer/Construction Manager's perspectives will be completed by specific building examples. International differences in the role of buildings/structures within our physical fabric will be explored, yet common threads will be found which can be useful in a shrinking world and a more universal construction industry. This course is open to all majors and undeclared students.

ARCH 2111:Architecture Culture I: Early Civilizations & Medieval

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The Architecture Culture sequence is designed as a historical survey of Architectural history and theory. Its aim is to develop an understanding of how architecture manifests the socio-cultural conditions of an era by examining the relationship between architecture and other cultural discourses such as philosophy, aesthetics, science, religion, politics and technology. It also examines how architecture, as a cultural artifact, transforms through time in response to alterations in its surrounding cultural context. This course introduces early architectural traditions and the formulation of European traditions through the Gothic.

ARCH 2211:Architecture Structures I - Introduction to Structures

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: (PHYS 1111 and PHYS 1111L) or (PHYS 2211 and PHYS 2211L)

This course is an introduction to architectural structures with an emphasis on statics and strength of materials concepts. Focus is on force systems, shear and moment diagrams and determination of section properties.

ARCH 2242:Design Communication II

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: ARCH 1241 or permission of the instructor.

This course offers lecture and practicum and is seen as a continuation of Design Communication I. It

introduces techniques and conventions of graphic communication as an aid for architectural design. This course advances levels of visualization and representation of architectural building and related design ideas. Techniques include hand drawings, digital rendering, and 3D computer modeling. The goal is to link traditional techniques and digital modeling to various studio works both at process level and final presentation level. A variety of representation techniques are introduced to highlight design vocabulary through a series of projects ranging from page layout to building. Both small-scale objects and moderate-scale structures/buildings can be used as base information to represent concepts of design and techniques of representation.

ARCH 2311:Environmental Tech I -Systems Selection and Materials

2 Class Hours 3 Laboratory Hours 3 Credit Hours

This course offers lecture and practicum. It introduces selection criteria of materials and their properties relative to structural and enclosure systems. Emphasis is placed on wood, steel, masonry, and concrete structural systems. Enclosure Systems are explored in relation to various applications of existing and new materials and finishes that building systems entail within the context of sustainability.

ARCH 3011:Architecture Studio V

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: (ARCH 2004 or ARCH 2013) and acceptance into the upper division upon portfolio review

This studio emphasizes the importance of conceptual architectural thinking, materiality, and natural daylighting and introduces integration of building technologies within the architectural design process. The majority of the semester focuses on a medium sized, mixed-use project located on a suburban/exurban site.

ARCH 3012:Architecture Studio VI

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 3011

This course is a continuation of ARCH 3011 and the integration of building technologies. Students design a medium to large-scale project within a dense urban setting with a focus on the contemporary workplace. Emphasis is placed on site context and systems and materials research in support of design intent. The first half of the semester is devoted to project design and the latter half is spent examining construction tectonics through large-scale physical models.

ARCH 3112:Architecture Culture II - The Renaissance through 1850

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the rise of renaissance architecture and architectural theory and traces the spread of their influence across Europe into the enlightenment. The architectural impact of colonial expansion is studied as European architecture interacts with or displaces the local traditions of colonized areas in Asia, Africa, and the Americas.

ARCH 3113:Architecture Culture III: 1850 through 1945

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores the innate relationship between the making of architecture and architectural theory as the events of the nineteenth and twentieth centuries unfold. Nineteenth century historicism in Europe and the United States is introduced and followed by an examination of the changing relationship to history that precedes the turn of the twentieth century. This course then begins an investigation of the diverse regional and conceptual approaches to modernity, covered up to the International Style Exhibition.

ARCH 3211:Architecture Structures II: Steel and Wood

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 2211

This course builds on ARCH 2211 with a focus on design and analyses of statically determinate wood and steel structure systems, mainly frames. Upon completion students would be able to apply design techniques in defining a frame system and selecting or sizing wood or steel members, particularly beams and columns, trusses, diaphragms, and connections. Knowledge and skills are applied in a final team project that highlights a structural form employing wood and steel.

ARCH 3212:Architecture Structures III: Concrete and Lateral Loads

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ARCH 3211

This course builds on ARCH 3211 with a focus on design and analyses of statically determinate and indeterminate concrete structure systems, mainly frames. Upon completion students would be able to apply design techniques in defining a frame system and selecting or sizing concrete members, particularly beams and columns, walls, foundations, and slabs. Knowledge and skills are applied in a final team project that highlights a structural form employing concrete.

ARCH 3313:Environmental Technology II: Human Comfort and Building Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARCH 2311

This course offers lecture instruction that is focused on the fundamental connection between human comfort and active / passive design mechanisms. Topics include building context / orientation and form, envelope characteristics and materials, and human comfort within interior environments. Additionally, energy conservation and major mechanical systems are examined in relation to building typology and sustainability.

ARCH 3314:Environmental Technology III: Lighting, Electrical and Acoustics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARCH 3313

This course is the culmination of the environmental technology sequence. Lectures elaborate upon prior coursework and place focus upon natural and artificial lighting, electrical systems, and building

acoustical design. Students will continue to explore the connection between building form and environmental design strategies to develop and enhance interior atmospheres.

ARCH 3398: Internship

Variable 1-12 Credit Hours

Prerequisite: Department Approval

This course is an internship course designed to provide real world experience options supported by the department.

ARCH 4013: Architecture Studio VII: Integrative Design

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 3012, ARCH 3314 and ARCH 3212

This course focuses on building structural systems and systems integration in relation to an architectural concept. Students will work on a program allowing them to study the impact of site and programmatic forces in relation to integrative principles as described by NAAB. The course builds upon and emphasizes synthesizing knowledge and skills acquired in concurrent and prior coursework.

ARCH 4014: Architecture Studio VIII: Urban Lab

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 4013 and ARCH 4116

This course focuses on designing urban environments and aims to expand students' design skills to a larger scale than single buildings or single sites. Integrating experiential data to conventional analysis, the studio aims to teach creating humane, just, aesthetically pleasing and livable urban environments.

ARCH 4114: Architecture Cultures IV: The Development of Architecture into the Twenty-First Century

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARCH 3113

This course continues the investigation of architecture culture by examining the development of the diverse regional and conceptual approaches to modern Architecture from the international style to the present, including the development of contemporary theoretical positions in architecture.

ARCH 4116: Urban Planning and Design Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines historic and current trends of urban design, development and growth. Diverse socio-economic-political and spatial issues that shape and continuously transform the physical fabric of cities, metropolitan centers, and regions are the focus of this course. The course requires critical and applied assignments, through which the students explore and understand theoretical and applied underpinnings of wide-ranging and diverse urban forms and practices.

ARCH 4117:Thesis Prep

2 Class Hours 0 Laboratory Hours 2 Credit Hours

The course prepares students to develop topics for their Thesis Proposal. Students must develop a clear design premise supported with research and a clear methodology to develop a robust thesis proposal for their thesis Project.

ARCH 4224:Professional Practice I: Codes and Technical Documents

2 Class Hours 2 Laboratory Hours 3 Credit Hours

This course offers lecture and practicum. It introduces Standard Building Code, N.F.P.A. 101 and A.D.A and / or International Building Code. Emphasis is placed on theory of building safety, code document organization and the application of codes to actual buildings. The learning of codes is further extended by applying the code knowledge to producing an actual set of technical [contract] documentation of an assigned architectural project.

ARCH 4225:Professional Practice II - Cost Control

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course introduces methods commonly used concepts of building economics to create budgets for the construction cost of commercial building projects from conceptual discussions with the Owner and the early stage of development of the drawings and specifications. These methods are typically used by architects and general contractors for feasibility and value engineering and building economic studies. The focus of this course is to enable architectural students to effectively create realistic estimates of probable economic cost for their clients and thereby work as a team member with the Owner and General Contractor to establish and maintain a project budget throughout the process of project design and construction.

ARCH 4226:Professional Practice III: Practice and Ethics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces the study of professional ethics, laws governing the practice of architecture and contractual relationships. It seeks to develop a working knowledge of how the American Institute of Architects (AIA) Document Series influences the method and legality of architectural practice. It emphasizes office management, professional liability and insurance, the owner-architect agreement, the architect- consultant agreement, owner-contractor agreement, bidding procedures and conditions of the contract management.

ARCH 4400:Directed Study

Variable 1-3 Credit Hours

Prerequisite: Departmental Approval

This course is designed to provide an independent study option for students to satisfy curriculum requirements.

ARCH 4490:Special Topics

Variable 1-4 Credit Hours

Prerequisite: Departmental Approval

Special Topics in Architecture determined by the Department topics vary in credit hour and in focus

ARCH 4891:Furniture Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The furniture design seminar | Workshop introduces students to the art + architecture and craft of studio furniture design. It is an introductory and interdisciplinary forum for critical discussion and design exploration outside of the architecture curriculum studio setting. The course will focus on the principles of art | architecture of studio furniture design and fabrication utilizing material wood and other contemporary materials as means and methods for fabrication.

ARCH 4892:Tactical Urbanism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The students in this elective will explore the strategic approaches necessary to CREATIVELY DISRUPT public spaces i.e. parks, streets, squares to offer new means of using it. Issues pertaining to programming, accessibility, innovation, materiality, tectonics, and more will be interrogated. Through a multi-prong approach the class will collectively develop a discourse on how design contributes to the material production of space: its limits and access within the contemporary neo-liberal market-driven city. Using the concept of 'PLAY' as a theme the students will create individual playful interventions which when put together will create a playscape for all. This intervention will be light and modular in design to be installed in multiple venues across the city.

ARCH 4893:Space Lab

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course is aimed at entangling the complex relationship between society and built environment. It addresses several fundamental questions that concern the understanding, synthesis and design of architectural and urban space: How do social norms influence the structure of the built environment? The course introduces students to the spatial analysis of various scales of the built environment, representations and analytical techniques of space syntax, depthmap software tutorials, and correlations between behavior observations and spatial measures.

ARCH 4894:Architecture Advocacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course focuses on the revitalized and critical role of architecture and architects in environmental, and social change within a rapidly changing world. Pedagogically, the focus is placed on advancing the students' commitment to sustainability with a distinctive lens - in an era, which as raised in the current debates, "Design is Not Enough". Such commitment extends not only to designing and building, but also generating innovate ways to reach out to a broader community, and policy-makers,

to form and inform sustainability in social and built environment; and to make a meaningful contribution to environmental literacy, and responsibility.

ARCH 4895:Computational Methods Advanced Generative-Analytical Technologies in Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to computational thinking and the fundamental concepts of computation through explorations with generative scripting and parametric tools. The goal is to understand the potential of computation and the role it can play as part of one's design process, not as a collection of specific tools, but as a way of thinking about design. By the end of the semester, students will have the vocabulary and an understanding of computing that will inform their future explorations with more advanced tools and technologies.

ARCH 5015:Focus Studio

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 4014

The Fifth-Year Focus Studios are intended to introduce the student to design research and its application, while adhering to creativity, critical thinking, processes of making, and constructability. The annual Focus Studio is an intrinsic part of the professional core of the Architecture Program and is designed to foster a strong relationship between the program, our students, and the profession as a whole. All qualified fifth year students have the option to select a studio critic who will broaden their area of interest in a subject-based studio.

ARCH 5016:Thesis Research

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ARCH 4117

Students pursue their thesis topic conceived in the Thesis-Prep course into a fully developed thesis proposal under the guidance of their thesis committee. Thesis Committee (two internal professors) must approve student Design Proposal. This course must be passed with a grade of an "S" (Satisfactory Progress) to move forward to Thesis Studio.

ARCH 5017:Thesis Studio

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: ARCH 5015 and ARCH 5016

Design solutions must demonstrate Ability to produce evidence to meet and exceed applicable NAAB criteria set by the Faculty. Thesis Coordinators uphold thesis procedures, standards and pedagogical mechanics keeping in view applicable NAAB student performance criteria [learning outcomes], values, principles and expectations of the Architecture Faculty in line with the vision and mission of the Arch Program and the University. Thesis Projects must follow the approved design proposal and be properly documented according to the approved thesis book layout, structure and table of contents. Thesis Project Book must be approved by student's Committee and Thesis Coordinator to

be acceptable for publication. Thesis requirements will be considered incomplete without the submission of the Project Book according to the approved guidelines.

Art

ANIM 3600:Foundation Animation

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1150 and ART 2550

This course is an introduction to contemporary animation. Course content focuses on frame-to-frame animation as well as 2-dimensional rigged animation techniques. Students will create unique animations using industry standard time-based media computer applications.

ANIM 3620:Storyboarding & Composition

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1150 and acceptance of program portfolio.

This course is an introduction to the use and creation of storyboards for animation. Students will interpret narratives including their own material into functional sequential art. Students will explore both traditional and digital media in the course.

ANIM 3630:Environments for Animation

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3160 and acceptance of program portfolio.

This course focuses on the basic design and creation of 2D environments for animation. Students will explore both traditional and digital media in the course.

ANIM 3640:Character Development

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550, ART 3150, and acceptance of program portfolio.

Students will apply their drawing skills and knowledge of the figure to create original characters designed for applied 2D animation techniques.

ANIM 3650:Digital Animation Production I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 3600 and acceptance of program portfolio.

This course focuses on using industry standard digital animation production software. Students will explore the pipeline nature of the software and the many roles involved with a professional animation production.

ANIM 3660:Digital Animation Production II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 3650 and acceptance of program portfolio.

This course is an advanced approach on understanding and operating industry standard digital animation production software. Students will focus on particular roles and tasks including 2D animation and compositing. Students will work on an independent animated short film or choose to participate in a team environment to create an animated short film.

ANIM 4631:3D Animation Modeling I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550 and acceptance of program portfolio.

This course introduces the student to industry standard 3D computer graphic software. Practical application of the software will include creating environmental imagery, props, and characters.

ANIM 4632:3D Animation Modeling II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 4631

This course continues the use of industry standard 3D computer graphic software. Practical application of the software will include creating environmental imagery, props, and characters. An intermediate level of application will focus on creating polished portfolio level work, achieved through the exploration of industry standard 3D elements in rendering and character animation.

ANIM 4633:3D Animation Modeling III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 4632

This course furthers the student's use of industry standard 3D computer graphic software. Practical application of the software will include creating advanced final exiting portfolio work. Advanced practice in industry standard 3D elements in rendering and character animation will be the focus of study.

ANIM 4651:Digital Animation Studio I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of Instructor and acceptance of program portfolio.

Students will pursue selected topics in animation of an advanced nature, which may include independent student research.

ANIM 4652:Digital Animation Studio II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 4651 and Permission of Instructor

Students will advance in selected topics in animation, which will include independent student

research. The course will focus on pre-production and production of an animated short film to include character development, background and prop design, storyboarding, animatic creation, scriptwriting and storytelling.

ANIM 4653:Digital Animation Studio III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ANIM 4652 and Permission of Instructor

Students will continue to advance in selected topics in professional animation, which will include independent student research. A focus on production and post-production of an animated short film will be explored. Final output of a 2-5 minute animated short for portfolio and film festival entry may be achieved through individual and/or group collaborative work. Polishing individual works for portfolio creation will also be addressed. The course will be tailored to individual final exiting portfolio studies.

ANIM 4660:Senior Animation Reel

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of an advisor, instructor and acceptance of program portfolio.

This graduating senior capstone course focuses on the development of a student resume and professional animation reel showcasing work designed for the animation industry. There is also a research component to hone expertise in current job market demands and requirements, prepare for establishment as a freelance artist in the animation industry, and/or graduate school opportunities. The animation reel will demonstrate an individual style and a high level of conceptual ability and professionalism.

ART 1100:Two-Dimensional Design and Color Theory

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: This course is for Art and Art related majors in interest only, including Interactive Design, BS.

Elements of art and the principles of two-dimensional design, with emphasis on line, shape, texture, space, value elements of color theory executed through conventional methods.

ART 1107:Art in Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This interactive course is an introduction to the role of visual art in global societies, from antiquity through the present day. It examines various media within their social, historical, and intellectual contexts; explores a variety of art-historical, art-critical, and theoretical issues; and facilitates critical and analytical thinking. It also teaches students how to analyze the basic elements of art and design and how to visit a museum. (Visits to some venues may require paid admission.)

ART 1150:Drawing I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: This course is for Art and Art related majors and interest only, including Interactive

Design, BS.

Drawing, using a variety of media and techniques, including work from figure, still-life and landscape. Some drawing with digital media.

ART 1200:Three-Dimensional Design

3 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100 and ART 1150. This course is for Art and Art related majors and interest only.

An introductory course in exploring, evaluating and resolving concepts related to basic three dimensional design problems. Exercises include three-dimensional drawing techniques and model building. Emphasis is placed on the application of elements and design and principles of organization as well as form and space relationships using a variety of media.

ART 2150:Drawing II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100 and ART 1150. This course is for Art and Art related majors or interests only.

Pictorial composition with studies in use of line, form, value and texture, including work from nature, the life model and setups.

ART 2290:Special Topics in Art

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected special topics of interest to faculty and beginning students interested in art.

ART 2550:Computer Applications in Art

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100, and ART 1150. This course is for Art an Art related majors and interests only.

The study of computer technology employed by professional artists. Digital presentation and documentation techniques covered. Limited work with art production software.

ART 2990:Concept, Creativity, and Studio Practice

2 Class Hours 4 Laboratory Hours 3 Credit Hours

This is a studio art foundation course and is a prerequisite for the BFA majors in all concentrations. It is designed as an introduction to the studio practices and conceptual processes of a creative artist.

ART 3011:Typography I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

The focus of this course is on the history of graphic design with emphasis on the exploration and study of typography as a visual communication tool. The course will include an understanding and working knowledge of the grid as a visual design tool for typographic page layout.

ART 3015:Electronic Illustration

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

The focus of this course is the execution of quality illustrations. The blending of traditional and electronic images will be influenced and strengthened by the history of illustration. The illustrations will be adapted for print and web using advanced conceptual skills and digital techniques. The strong development of form and color and the elements and principles of design will be stressed.

ART 3020:Typography II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3011 and ART 2990 - may also be taken concurrently

The focus of this course is on concept-based problem solving with emphasis on the appropriate use of type and form. Students will explore historical periods of typography to include well-known designers and design trends. Symbolism and corporate identity design will also be incorporated.

ART 3021:Publication Design

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3020 and admission into the graphic communication concentration

The focus of this course is typography and advanced page layout for print and electronic publications (magazines, newsletters, brochures, web pages, etc.), and the benefits of each for the intended audience, with emphasis on accessibility and reach. Students will demonstrate their understanding of visual structural systems (grids) to produce a cohesive group of layouts in a variety of document formats. Students will develop experience in the building of good design structure and organization and address the importance of the role of the designer in the design process, design analysis and evaluation.

ART 3022:Pre-Press

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Admission into the graphic communication concentration **Concurrent:** ART 3020

The focus of this course is on digital image manipulation and object oriented-graphics. This will ensure that students have a thorough understanding of digital file formats and their application to page layout. Emphasis will be on production terminology according to the principles of industry standard digital pre-press. Image editing and manipulation for the web will also be covered.

ART 3120: Ceramics I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1200 and full admission into the art program.

Basic processes in ceramics, including pinch pot, coil and slab method of building, wheel throwing and an introduction to ceramic decoration with engobes, glazes and textures.

ART 3150: Figure Drawing

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150

Intensive study of the human figure; action, structure, volume, design and expressive potentialities from a variety of models, using a variety of media. Some portraiture.

ART 3160: Painting I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100 and ART 1150

Painting with various media emphasizing organizational structure, technical considerations and abstract relationships.

ART 3260: Painting II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Concurrent:

ART 2150 and ART 3160

This course focuses on painting with acrylics and/or oils emphasizing organizational structure, abstract relationships and technical considerations.

ART 3265: Aqueous Media

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150 and ART 3160

This course introduces painting in a variety of traditional and non-traditional water-based media such as watercolor, ink, and gouache. Both technical mastery and creative experimentation are emphasized.

ART 3300: Sculpture I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1200 and ART 2150

An introduction to selected sculptural processes using a variety of media.

ART 3310: Sculpture II: Welding

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1200

This course provides students with a comprehensive introduction to welding and metal fabrication tools, processes, materials and techniques. There is an emphasis on welding method and practice, as well as the utilization of developed skills to fabricate work from concept to finished product.

ART 3320:Jewelry and Small Metals I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1200

This course is an introduction to basic small metals and jewelry techniques including fabrications, forming, and finishing. It emphasizes advanced design skills and critical analysis, as well as exposure to historical and contemporary works.

ART 3325:Jewelry and Small Metals II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3320

This course will explore various formats, techniques, and materials necessary to gain an understanding of utilitarian objects and holloware. Techniques will include tool making, repoussage, and forging, while reflecting the students' individual visual and conceptual interests.

ART 3330:Sculpture III: Foundry

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3300

This class is an introduction to the processes, materials and tools of casting non-ferrous metal. It gives a student room to explore areas of personal interest and develop greater skills in an area of specialization. Students will gain an understanding of foundry practices and will discuss matters concerning aesthetics, structure, presentation, craftsmanship and finish.

ART 3341:Master Craftsman I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

The Master Craftsman Program is an immersive course offering students hands-on experience in creating sculpture and applied three-dimensional constructions with an emphasis on functioning as real-world professionals. Students will meet with clients whose real-life needs will set the specific parameters for which students will design, construct, and install projects.

ART 3342:Master Craftsman II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1200 and ART 3341

This immersive course offers students hands-on experience in creating sculpture and applied three-dimensional constructions with an emphasis on functioning as real-world professionals. This course expands upon skill sets learned in ART 3341. Students meet with clients whose needs will set the specific parameters for which students will design, construct, and install projects.

ART 3343:Master Craftsman III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3342

This immersive course offers students hands-on experience in creating sculpture and applied three-dimensional constructions with an emphasis on functioning as real-world professionals. The course expands upon skill sets acquired in ART 3341 and ART 3342. Students meet with clients whose needs will set the specific parameters for which students will design, construct, and install projects.

ART 3360:Wheel Throwing

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3120

In this course students will gain a comprehensive understanding of pottery creation using the wheel throwing technique and the various pottery decoration techniques.

ART 3380:Mold Making and Slipcasting

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3120

In this course students will develop an understanding of plaster mold making and the slip casting process for the creation of ceramic sculpture and pottery forms.

ART 3396:Cooperative Study

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of coordinator of cooperative educational internships (Career Services).

A supervised work experience program for a minimum of two academic semesters at a site in business, industry or government. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

ART 3398:Art Internship

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the department chair.

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency.

ART 3400:Digital Photography

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course introduces digital photography and its basic practices for fine art applications. It explores various methods of photographic image-making in contemporary art and its interpretations. Assignments and class critiques will emphasize the development of a visual vocabulary and explore the possibilities of photography as a visual arts medium.

ART 3410:Film Photography

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100 and acceptance into the art major.

This course introduces students to the basic manual functions of film cameras and darkroom processing and printing techniques. Students will use black-and-white film and darkroom paper to produce traditional photographic prints. The course teaches a refinement of photographic techniques and visual skills with an emphasis on aesthetics.

ART 3420:Lighting for Photography and Video

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3410 and ART 3400

This course teaches students photographic studio and location lighting techniques and introduces the large-format 4x5 camera. Students will apply increasing understanding of darkroom and digital practices to large-format analog and digital printing. Knowledge of contemporary theory and criticism and its application to contemporary photography is incorporated.

ART 3430:Introduction to Video

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course covers selected topics in video art, which include the use of video shooting and editing practices for the advancement of student personal artwork and style.

ART 3500:Printmaking I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150

Students learn basic printmaking processes, techniques, and professional craftsmanship.

ART 3510:Printmaking II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3500; ART 2990 (may also be taken concurrently).

Advanced exploration of conventional and experimental printmaking techniques including but not limited to the relief, intaglio and stencil processes.

ART 3520:Planographic Techniques I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3510

This course examines techniques and contemporary applications of planographic printmaking in silkscreen printing and lithography. The emphasis is on experimentation, design, drawing, and multicolor printing. Topics include hand-cut paper, and film and photographic stencils in silkscreen and hand-drawn aluminum and digital polyester lithographic techniques. Classes include discussion

and critique of print content and concept together with the technical skills involved in each phase of the planographic processes.

ART 3550:Bookarts, Letterpress and Papermaking

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150

This course introduces the history, materials, and techniques associated with book arts, letterpress and paper making.

ART 3600:Illustration I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100, ART 1150, ART 1200, ART 2550, ART 2990, and ART 2150

This course will focus on sketches, revisions, research and final image development. Subjects covered will be methods and sources for research and the sketch as a research and presentation tool.

ART 3610:Illustration II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3600

The course focuses on the Principles of Visual Communication: choice of subjects, procedures, and the practice of illustration. Visualizing the text will be the primary emphasis for this course, in addition to exploration of ideas, events, and personalities. This will involve creating illustrations for various publishing forms.

ART 3705:Sequential Art I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 1100, ART 1150, ART 1200, ART 2550, ART 2990, and ART 2150

An introduction to the art of comics. The art of making effective, strong and original layouts is emphasized in this course. Students acquire a basic understanding of the history of the medium current trends, orthodox and experimental narrative techniques that are possible.

ART 3715:Sequential Art II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150 and ART 3705

This class explores the formal underpinnings of comics and provides an overview of tools and techniques utilized in the creation of sequential art.

ART 3800:Sewing & Construction Techniques

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ATT or ART major

This course is an introduction to textiles sewing/construction techniques for apparel and costume, home and accessories. Topics include machine components, machine set-up and maintenance, basic sewing construction and finishing techniques.

ART 3810:Sewing Construction Techniques II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3800

Building on skills gained in ART 3800, this course focuses on textiles sewing/construction techniques for apparel and costume and home and accessories. The course includes advanced sewing construction and finishing techniques.

ART 3990:Art As a Public Profession

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2990

This course introduces the art student to a variety of artistic fields and endeavors which provide a range of income-generating possibilities for the professional artist. With a special focus on art in public places, the course will guide the student through the specifics of preparing, locating, and applying for public art commissions. The course will also look at the establishing artistic relationships with art galleries, museums, and art centers, as well as preparation for the realm of self-employment.

ART 4021:Advertising and Packaging

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3021 and ART 3022

This course explores the role of advertising and packaging as part of the graphic design discipline. Emphasis will be on advertising campaign strategies and tactics from a historical perspective, package design solutions targeted to marketing objectives, and media realities and display aesthetics. The history and unique positioning of advertising and packaging will be stressed.

ART 4022:Web Design for Artists

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course provides students with the foundations for website design using industry standard web-editing applications. The emphasis will be on student-centered digital portfolio projects of professional quality. The students will learn methods for conceptualizing, designing, producing, and web publishing. Effective visual design, usability, web content organization and the processes of website development will also be covered.

ART 4023:Interactive Media Design

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course provides students with the foundations for interactive media design using current industry

software applications. It emphasizes the creation and delivery of basic interactive content for current interactive environments, while exploring the features and capabilities of various software applications. Students are expected to demonstrate a high level of technical and creative mastery in their final projects, along with creating successful user experiences.

ART 4024:Motion Graphics

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course provides the student with foundations for motion graphics and digital video using current industry applications. The emphasis is on learning the history, theory, principles, and elements of motion graphic design and the process of motion graphic creation. A broad range of themes, concepts, digital animation, and current technologies are discussed.

ART 4030:Design Practicum

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3022 and ART 4022; ART 4021 (may also be taken concurrently).

This course focuses on the integration of the accumulated skills and knowledge obtained and cultivated while in the graphic communication concentration. Emphasis is on strategic accuracy, the compelling power of the concept, and the refinement of the art direction, along with the ability to create persuasive and effective design presentations. The course includes site visits and guest speakers from the industry geared towards students' exposure to the professional workplace.

ART 4036:Concept Art I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150 and ART 3160

This course examines the unique considerations involved in the creation of concept art. Character and environment design will be explored. Traditional and digital mediums will be considered.

ART 4037:Concept Art II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4036

This course continues the exploration of concept art begun in Concept Art I through painting and drawing, source image collection, or moquette construction. Students will have the option to use traditional painting and drawing mediums as well as contemporary digital painting and drawing software.

ART 4151:Advanced Drawing I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3260 and admission to the Painting and Drawing Concentration

Selected topics in drawing of an advanced nature which may include independent student research.

ART 4152:Advanced Drawing II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4151

In this course students will propose a concept and produce a series of thematically linked works. Visual research and citation is required. Evolution of concept and technique is expected. The course extends beyond dry media on paper. Other media is welcome as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4153:Advanced Drawing III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4152

Students will advance concepts and techniques building on ART 4152. The course extends beyond dry media on paper. Other media is welcome, as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4154:Advanced Drawing IV

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4153

Building on ART 4153, students will further advance concepts and techniques. This course extends beyond dry media on paper. Other media is welcome, as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4256:Advanced Figure I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150 and ART 3160

Detailed study of the human figure as a subject in art, including drawing and painting from the live model. Portraiture will be considered in addition to the structure and design potential of the figure.

ART 4257:Advanced Figure II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4256

Detailed study of the human figure as a subject in art, including drawing and painting from the live model. Portraiture will be considered in addition to the structure and design potential of the figure. Expectations exceed levels of ART 4256 Advanced Figure I.

ART 4258:Advanced Figure III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4257

In this course, expectations exceed levels of ART 4257 Advanced Figure II. The focus is detailed study of the human figure as a subject in art, including drawing and painting from the live model. Portraiture will be considered in addition to the structure and design potential of the figure. Various drawing mediums will be used including charcoal and pastel. Various painting mediums will include oil, acrylic and watercolor.

ART 4259:Advanced Figure IV

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4258

The purpose of this course is to further strengthen the student's ability to draw and paint the figure. Students will work from the live model and will be expected to work independently to create a cohesive, technically mature body of work equivalent to a professional whose focus is the figure.

ART 4266:Advanced Painting I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3260 and admission to the Painting and Drawing Concentration.

Selected topics in painting of an advanced nature which may include independent student research.

ART 4267:Advanced Painting II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4266

In this course, students propose a concept and produce a series of thematically linked works. Visual research and citation is required. Evolution of concept and technique is expected. This course extends beyond oil-based paint applied to canvas or board. Other media is welcome as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4268:Advanced Painting III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4267

In this course, students will advance concepts and techniques, building on ART 4267. The course extends beyond oil based paint applied to canvas or board. Other media is welcome, as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4269:Advanced Painting IV

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4268

Building on ART 4268, students will further advance concepts and techniques. This course extends beyond oil based paint applied to canvas or board. Other media is welcome, as well as the hybridization of disciplines. The departure from two-dimensional is also possible. All media choices depend on the relevancy of technique to the conceptual statement.

ART 4311:Advanced Sculpture I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3310 or ART 3330 and admission to the Sculpture Concentration.

Selected topics in sculpture of an advanced nature, which may include independent student research.

ART 4312:Advanced Sculpture II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4311

Selected topics in sculpture of an advanced nature, building on ART 4311, which may include independent student research.

ART 4313:Advanced Sculpture III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4312

Selected topics in sculpture of an advanced nature, building on ART 4312, which may include independent student research.

ART 4361:Advanced Ceramics I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3360 or ART 3380 and admission to the Ceramics Concentration.

Selected topics in ceramics of an advanced nature, which may include independent student research.

ART 4362:Advanced Ceramics II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4361

Selected topics in ceramics of an advanced nature, building on ART 4361, which may include independent student research. Students in Advanced Ceramics II will work with the instructor to push their technical and conceptual abilities with the goal of developing their individual path as a fine artist, designer or craftsman.

ART 4363:Advanced Ceramics III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4362

Selected topics in ceramics of an advanced nature, building on ART 4362, which may include independent student research. Advanced Ceramics students are expected to take a major role in running the studio. Students will take on ownership and leadership roles, thereby preparing themselves for running a ceramics studio of their own.

ART 4364:Advanced Ceramics IV

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4363

Selected topics in ceramics of an advanced nature, building on ART 4363, which may include independent student research. Students in Advanced Ceramics will work with the instructor with the goal of developing their individual path as a fine artist, designer or craftsman. Students are expected to take a major role in running the studio in preparation for running their own ceramics studio.

ART 4365:Technical Ceramics

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4362

This class is an advanced level ceramics course with a focus on kiln design and building, clay formulation, and glaze chemistry. With the feel and structure of a science course delivered through lectures and lab time to run experiments, this mostly technical course is designed to give ceramics students a thorough understanding of all technical aspects of ceramics material.

ART 4400:Directed Study in Art

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of an advanced nature, which may include original research projects.

Notes: Can be used in upper-level course requirements only twice with no more than 3 hours credit given each time

ART 4411:Advanced Photography I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3410, ART 3400 and admission to the photography concentration.

Selected topics in photography of an advanced nature, which may include independent student research.

ART 4412:Advanced Photography II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4411

Selected topics in advancing studies of photography, which includes independent student research.

ART 4420:Alternative Photographic Processes

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3400 and ART 3410

This course covers advanced level course designed around selected topics in traditional and historic photographic techniques.

ART 4430:Digital Post-Production Processes

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550, ART 3400, ART 3410, and ART 3430

This advanced level course furthers students' understandings and capabilities in post-production workflows, software, techniques, and technical applications with regard to photography and video.

ART 4440:Large Format Photography

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3400, ART 3410

This course teaches students the fundamentals about photographic techniques in relation to the use of the large format camera types. This class further develops students' understanding of darkroom and digital practices and their application to large format analog and digital printing.

ART 4490:Special Topics and Art Seminar

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected special topics and seminars of interest to faculty and upper-level students interested in art.

ART 4511:Advanced Printmaking I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3510 and admission to the printmaking concentration.

Advance printmaking is an in-depth study of printmaking processes and includes independent supervised research. Student and instructor enter into an agreement at the beginning of the semester to develop projects designed to meet the student's needs and interests in the study of printmaking.

ART 4512:Advanced Printmaking II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4511

This course is a continuation of the study into advanced printmaking processes and will include

independent supervised student research. Student and instructor enter into an agreement at the beginning of the semester to develop projects designed to meet the student's needs and interests in the study of printmaking.

ART 4513:Advanced Printmaking III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4512

This course is a continuation of study into advanced printmaking processes and will include independent supervised research specifically designed to prepare for the senior exhibition. Student and instructor enter into an agreement at the beginning of the semester to develop projects designed to meet the student's needs and interests in the study of printmaking.

ART 4514:Advanced Printmaking IV

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4513

This course is a continuation of the study into advanced printmaking processes and will include independent supervised student research specifically designed to finalize preparation for the senior exhibition. Student and instructor enter into an agreement at the beginning of the semester to develop projects designed to meet the student's needs and interests for their senior capstone.

ART 4520:Planographic Techniques II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3520

This course examines techniques and contemporary applications of planographic printmaking in silkscreen printing and lithography. The emphasis is on experimentation, design, drawing, and multicolor printing. Topics include hand-cut paper, and film and photographic stencils in silkscreen and hand-drawn aluminum and digital polyester lithographic techniques. Classes include discussion and critique of print content and concept together with the technical skills involved in each phase of the planographic processes.

ART 4551:Advanced Bookarts, Letterpress and Papermaking I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2150 and ART 3550

This course covers advanced letterpress and letterpress-printed book techniques. Students will make handmade paper, expand on their exploration of book design, and learn advanced letterpress printing. Students will continue to explore a variety of printing, papermaking and bookarts techniques as they apply to letterpress printing. Image-making processes will include advanced multi-color linoleum prints, woodcut, collagraph, pressure printing, monoprinting, photopolymer, pulp painting, paper inclusions, and other techniques.

ART 4552:Advanced Bookarts, Letterpress and Papermaking II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4551

This course is a continuation of advanced letterpress and letterpress-printed books techniques. Students will make advanced handmade paper portfolios, expand on advanced exploration of book design, and learn advanced letterpress printing. Students will continue to explore a variety of printing, papermaking and bookarts techniques as they apply to letterpress printing. Image-making processes will include advanced multi-color linoleum prints, woodcut, collagraph, pressure printing, monoprinting, photopolymer, pulp painting, paper inclusions, and other techniques.

ART 4600:Advanced Illustration

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3610

The ability to bring a creative project to a full and successful level of finish is often neglected in the academic environment, but is an essential professional skill. This course requires that students meet goals they set for themselves through individualized projects, but that they meet them fully with the highest degree of resolution and polish.

ART 4611:The Visual Essay I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3610, ART 3150, ART 3160, and ART 4256

This course is an introduction to the artist as a visual journalist, documenting the world that surrounds us through on-the-spot drawings and paintings.

ART 4612:The Visual Essay II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4611

This course advances the artist, building on ART 4611, as a visual journalist, documenting the world that surrounds us through on-the-spot drawings and paintings.

ART 4613:The Visual Essay III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4612

This course advances the artist, building on ART 4612, as a visual journalist, documenting the world that surrounds us through on-the-spot drawings and paintings.

ART 4621:Storytelling and Myth-Making I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3610, ART 3150, and ART 3160

This course is a discussion and related narrative projects course that will help the student discover the value of the artist's role in society as a story-teller and myth-maker.

ART 4622:Storytelling and Myth-making II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4621

This course continues the discussion and related narrative projects. This course will help the student discover the value of the artist's role in society as a story-teller and myth-maker.

ART 4623:Storytelling and Myth-making III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4622

This course continues the discussion and related narrative projects, building on ART 4622. This course that will help the student discover the value of the artist's role in society as a story-teller and myth-maker.

ART 4631:Sketchbook Narrative I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3600, ART 3150 and ART 3160

This course exercises all of the skills that lead to successful visual communication. The sketchbook is an environment where students can work on idea development that fulfills strict objectives, but allows for risk while helping students become confident in developing their process and to apply it to very specific commercial and editorial concerns.

ART 4632:Sketchbook Narrative II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4631

This course continues to build upon and exercise all of the skills that lead to successful visual communication in a setting where the student feels comfortable in a professional setting. The sketchbook is an environment where students can work on ideation that fulfills strict objectives and develops artistic identity and helps the student become confident in developing their process and apply it to very specific commercial and editorial concerns.

ART 4633:Sketchbook Narrative III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4632

This course continues to build upon ART 4632 and exercises all of the skills that lead to successful visual communication in a setting where the student feels comfortable in a professional setting. The sketchbook is an environment where students can work on ideation that fulfills strict objectives and develops artistic identity and confident in developing process and application to very specific commercial and editorial concerns.

ART 4700:Advanced Sequential Art

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3715

Students are expected to demonstrate knowledge of all the basic facets of visual storytelling. This class explores advanced aspects of drawing one's own narratives in long-form sequential art.

ART 4711:Narrative Arts

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150 and ART 3705

This course will explore the form of visual literature known as "comics" or "comic art". Studying comics and their relationship to popular culture will be a focus within the realm of artistic and literary criticism.

ART 4712:Narrative Arts II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4711

This course will continue to explore the form of visual literature known as "comics" or "comic art". Studying comics and their relationship to popular culture will be a focus within the realm of artistic and literary criticism.

ART 4713:Narrative Arts III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4712

This course will continue to build upon ART 4712 and explore the form of visual literature known as "comics" or "comic art". Studying comics and their relationship to popular culture will be a focus within the realm of artistic and literary criticism.

ART 4721:Comic Storytelling I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150

This class focuses on helping students develop their comic storytelling techniques by illuminating the relationship between text and image on the comic page, ideas of plot versus theme, the use of composition and symbolism in the comic panel, and how all of these correlations work together to serve the goal of the artist in communicating their personal narrative vision in the comic form.

ART 4722:Comic Storytelling II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4721

This class focuses on more advanced development of student comic storytelling techniques by illuminating the relationship between text and image on the comic page, ideas of plot versus theme,

the use of composition and symbolism in the comic panel, and how all of these correlations work together to serve the goal of the artist in communicating their personal narrative vision in the comic form.

ART 4723:Comic Storytelling III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4722

Building on ART 4722, this class furthers the development of student comic storytelling techniques by illuminating the relationship between text and image on the comic page, ideas of plot versus theme, the use of composition and symbolism in the comic panel, and how all of these correlations work together to serve the goal of the artist in communicating their personal narrative vision in the comic form.

ART 4736:Experimental Comics I

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 3150 and ART 3705

This course rigorously combines theory and practice, exploring how different genres (e.g. poem, short story, novel, journalism, film) can be adapted into a sequential art format.

ART 4737:Experimental Comics II

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4736

This course has a more advanced approach to combining theory and practice, exploring how different genres (e.g. poem, short story, novel, journalism, film) can be adapted into a sequential art format.

ART 4738:Experimental Comics III

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: ART 4737

This course builds upon ART 4737 and fosters professional theory and practice while exploring different genres (e.g. poem, short story, novel, journalism, film) and adapting them into a sequential art format.

ART 4980:Senior Portfolio and Applied Project

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the advisor and instructor. **Concurrent:** ART 4030

This graduating senior capstone course focuses on the development of a student resume and professional portfolio showcasing work designed for varied platforms. There is also a research component through which to hone knowledge of current job market demands and requirements, as well as graduate school requirements. The work completed in this course should represent an individual style and high level of conceptual ability and professionalism.

ART 4990:Senior Art Seminar and Exhibition

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the advisor and instructor.

This graduating senior capstone course focuses on the development of a professional graduation exhibition, resume and professional portfolios. Career and graduate school research are course components. Selected topics dealing with professional artists and exhibition practices, culminating with the exhibition of participants' work. The exhibition pieces will demonstrate work that represents an individual style and a high level of conceptual abilities and professionalism.

Art Education

ARED 3155:Art Education Life Drawing

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Art majors: ART 2150 and ART 2990

This course is an advanced study of drawing concentrating on the subject matter of the human figure. Each of the approximately 30 sessions will consist of lectures on anatomy with in-class studio work, group critiques and tests of knowledge of subject matter. Media used in this class will progress from graphite and chalks to other media as chosen by the student.

ARED 3302:Teaching, Learning and Development in Visual Arts

2-3 Class Hours 0 Laboratory Hours 2-3 Credit Hours

Prerequisite: Admission to a program in the School of Art and Design

This course is designed to help students gain an understanding of the current teaching issues in the field of art education and to understand development and learning in the P-12 art room. Creative, artistic, and perceptual development will be presented through an examination of the characteristics of diverse learners and an emphasis on the physical, psychosocial-emotional, and cognitive development of P-12 learners.

Notes: This course will include 40 field placement hours.

ARED 3304:Teaching Art History, Criticism and Aesthetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ART 2550

This course is designed to prepare students to develop strategies for teaching art history, art criticism, and aesthetics in the P-12 art classroom. Students will develop materials appropriate for classroom instruction that stimulate and assess art learning. In addition, this course meets the required learning for Fine Arts Georgia Performance Standards and National Standards for Visual Arts.

ARED 3306:Materials, Methods and Management for Teaching Art (P-12)

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ART 2550

This course is an intensive laboratory experience using the media and materials for teaching art. Intended for prospective art specialists teaching grades P through 12. Methods and strategies for teaching various art media and processes will be covered. Classroom management strategies are integrated into teaching methods.

Notes: This course will include 40 field placement hours. Proof of professional liability insurance required prior to receiving a school placement.

ARED 3308:Special Populations in Art Education

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ARED 3306 and admission to Teacher Education.

This course focuses on content knowledge and applications for art educators teaching students with exceptionalities. Content includes current legal, educational, and therapeutic issues as they relate to teaching art to special populations. Distinctions between art education and art therapy are discussed.

Notes: This course includes 48 field experience hours. Proof of professional liability insurance is required prior to receiving a school placement.

ARED 3309:Visual Art for Early & Middle Grades

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Admission to Teacher Education.

A course designed for preparing elementary school educators to integrate meaningful art experiences into the classroom. Prospective elementary classroom educators develop basic concepts, skills, methods of instruction, and teaching competencies in the specific area of the visual arts.

ARED 3310:Multiculturalism & Crossculturalism in Art Education

1 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: EDUC 2201, EDUC 2204 **Corequisite:** ARED 3302

This course involves an exposure to art education literature that focuses on diversity issues in historical and contemporary contexts (including ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation and geography). Theories and models of contemporary art education practice are explored, which strengthen the respect proper to all classroom diversities. Students participate in field experience activities in schools, museums and other community settings.

ARED 3398:Internship

1-12 Credit Hours

Prerequisite: Approval of the instructor and department chair.

A supervised, credit-earning work experience of one academic semester with an approved school, museum or educational organization involved in the visual arts.

ARED 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of an advanced nature, which may include original research projects. The content of the directed study will be determined jointly by the instructor and the student.

ARED 4410:Intercultural Curriculum Model

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Art and Design.

This course is designed to prepare prospective art teachers to be able to plan and organize effective art programs and curricula, to explore innovative and exemplary art programs and materials, to assess art learning, and to develop a rationale and strategy for articulating and promoting a quality art program. In addition, this course involves an exposure to art education literature that focuses on diversity issues in historical and contemporary contexts (including ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation, and geography). Theories and models of contemporary art education practice are explored. Students also participate in a clinical practice activity in a partner school, involving the cooperative creation, delivery and assessment of an original art curriculum unit.

Notes: Proof of liability insurance is required prior to school placement.

ARED 4425:Teaching of Art: Practicum

0 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: ARED 4410 or ARED 3306

A comprehensive art education model-based course combining curriculum design and instructional methods with in-depth field experience in the public schools. Students will both observe and teach in a classroom setting. Campus seminars will relate the field experiences to current instructional theory. Admission to Teacher Education. Proof of liability insurance required prior to receiving a school placement.

ARED 4490:Special Topics in Art Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected special topics and seminars of interest to faculty and upper-level students interested in art education.

ARED 4650:Yearlong Clinical Experience I

0 Class Hours 6-9 Laboratory Hours 2-3 Credit Hours

Prerequisite: Pre-service certificate, admission to Yearlong Experience **Corequisite:** EDUC 4610

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in art education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities as English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Notes: Proof of liability insurance is required.

Notes: Proof of liability insurance is required.

ARED 4660:Yearlong Clinical Experience II

0 Class Hours 40-45 Laboratory Hours 8-9 Credit Hours

Prerequisite: GACE eligibility, ARED 4650

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in art education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of content pedagogy assessment. Notes: Proof of liability insurance is required.

Notes: Proof of liability insurance is required.

ARED 4990:Senior Seminar and Portfolio

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of instructor

This graduating senior capstone course focuses on the development of a professional art educator portfolio and other supporting materials. Career and graduate school research are course components. Topics address current issues relative to the emerging art education professional. The portfolio will demonstrate work that represents an individual style and a high level of professionalism.

Art History

ARH 2750:Ancient through Medieval Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This lecture/discussion course surveys the art and architecture of the western world from prehistory through the middle ages. It includes an introduction to parallel developments in Asia, Africa, and the Americas.

ARH 2850:Renaissance through Modern Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This is a lecture/discussion course in which students study major developments and trends in world art from the fifteenth through the twentieth centuries CE. It includes an introduction to parallel developments in Asia, Africa, and the Americas.

ARH 3000:Asian Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ARH 2750 or ARH 2850) and ENGL 1102

This lecture/discussion course surveys the art of India and Southeast Asia, China, Japan, and Korea from prehistory to the present. Students study the chronological developments of the major styles of painting, sculpture, architecture, and decorative arts from these regions. The course discusses artistic achievements and aesthetics, and it explores how cultural, political, religious, and social climates have shaped the visual arts in Asia from the beginnings of its civilization to the 21st century.

ARH 3100:African Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course surveys select tradition-based African arts from the pre-colonial period up until the present day. Emphasis is placed on the study of key monuments and media within a regional and chronological framework, but also on the cultural principles and concepts reflected in canonical African art. The interrelation of art with ritual, religious belief, gender, politics, and history will be continuing themes. Primary media discussed include architecture, sculpture, masquerade, body adornments, and textiles.

ARH 3150:Islamic Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course is a survey of visual culture from the Islamic world, beginning with its origins in the seventh century. It examines a range of media, including ceramics, metalwork, textiles, arts of the book, sculpture, and architecture. It considers artistic production and consumption in a variety of regions and social contexts in the Middle East, Europe, Africa, and Asia. And it explores issues such as the definition of Islamic art, its study in the West, and Orientalism.

ARH 3200:Ancient American Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course surveys the arts of select Mesoamerica and Andean cultures up to the colonial period. Monuments are studied in a chronological framework with emphasis on the principles and concepts that underlie the art. Style, technique, and media are considered, as well as the varied contexts of art production and reception and the interrelation of art with religion, statecraft, gender, and nature.

Sculpture, architecture, textiles, earthworks, metals, and ceramics are the principal art media under consideration.

ARH 3240:Native North American Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course surveys key monuments and cultural principles in the arts of select native North American cultures from the pre-contact period until the present day. Architecture, earthworks, terracotta and stone sculpture, textiles, ceramics, and body arts are studied within a regional and chronological framework. The interrelations of art with ritual, religious belief, myth, nature, gender, politics, and history will be continuing themes.

ARH 3250:Latin American Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

A study of Latin-American art from the colonial period to the present. Students in this course study art of the Spanish and Portuguese colonial period, art of the nineteenth century following independence, and major developments and trends in modern painting, sculpture, and architecture since 1900.

ARH 3300:Ancient Egyptian and Nubian Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750

This course surveys the art and architecture of ancient Egypt and Nubia. Monuments are studied in a chronological framework with emphasis on the principles and concepts that underlie art. Style, technique and media are considered, as well as the varied contexts of art production and reception and the interrelation of art with religion, myth, social life, and history. Architecture, sculpture, and body modification and adornments are the principle media considered.

ARH 3320:Ancient Near Eastern Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course is a survey of the art and archaeology of the ancient Near East (now the Middle East), from the 4th millennium BCE through the 7th century CE. It examines a range of media in their social, political, and intellectual contexts. It also explores issues such as cultural interaction; political art of ancient empires; gender, ethnicity, and identity; the definition of the "Near East"; Biblical archaeology; and heritage management (especially in times of conflict).

ARH 3350:Greek Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750 and ENGL 1102

This course is a survey of ancient Greek visual culture through the Hellenistic period. It examines a

range of media in their social, political, and intellectual contexts, exploring such issues as connoisseurship; portraiture; commemorative art; architecture and urban development; cross-cultural exchange; gender, ethnicity, and identity; and ancient art history and criticism. It incorporates new archaeological discoveries as much as possible, and it encourages students to visit museums.

ARH 3370:Roman Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750

This course is a survey of the art and architecture of Republican and Imperial Rome, from the first century B.C.E. to the fourth century C.E. It examines a range of media (e.g., coins, pottery, mosaics, sculpture, painting, and architecture) within their social contexts, dealing with such issues as the viewer and viewing; portraiture; gender; ethnicity; social status; domestic space; and urban development. This course incorporates new archaeological discoveries as much as possible, and it encourages students to visit museums.

ARH 3398:Internship

0 Class Hours 1-6 Laboratory Hours 1-6 Credit Hours

Prerequisite: A 2.5 GPA and permission of the department chair.

A supervised work experience of one academic semester with a previously approved gallery, museum, or arts organization. No more than 6 credits may be applied as upper-division art history in the major.

ARH 3400:Medieval Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2750

This course is a survey of medieval art and architecture in Europe and the eastern Mediterranean, from the fourth through fourteenth centuries. It examines a range of media within their social, political, and intellectual contexts, and it discusses such issues as the interaction among the visual cultures of Christianity, Judaism, and Islam; the art of the Crusades; the relationship between word and image; pilgrimage and monasticism; urban development; and gender, ethnicity, and social status.

ARH 3500:Italian Renaissance Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

A survey of art and architecture in Italy from the early fourteenth century to the mid-sixteenth century. The veneration of classical antiquity and the development of naturalistic representation are examined. Issues of patronage, artists' training, and technology are also addressed.

ARH 3600:Baroque Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

A survey of major movements, artists and themes in seventeenth- and eighteenth-century art and architecture in Europe and the Americas.

ARH 3700:Nineteenth-Century Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

This course is a survey of major developments and trends in nineteenth-century painting, sculpture, and architecture. It reviews major aesthetic theories and non-western art forms that shaped nineteenth-century art.

ARH 3750:History of American Art and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

This course is a survey of the styles and movements of art and architecture in the United States from colonial times to present.

ARH 3840:History of Illustration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 and ARH 2850

This is a lecture/discussion course in which students study major developments and trends in the art of illustration as a vehicle for telling of stories from the Paleolithic period to the present.

ARH 3850:Art Since 1900

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Art majors: ARH 2850 and ENGL 1102. Non art majors: ENGL 1102 and permission of the instructor.

This is a lecture/discussion course in which students study major developments and trends in visual arts since 1900. Students become familiar with the dominant artistic practices and critical theories that defined "modernism," and with the social, political, and cultural changes that initiated the shift in visual art from modernism to post-modernism.

ARH 3990:Research Methods in Art History

3 Class Hours 3 Credit Hours

Prerequisite: ENGL 1102 and ARH 2750 and ARH 2850

This is a lecture/discussion course in which students are introduced to the main methodologies of art historical research and learn to apply them to the analysis of artistic practice. Lectures and discussions focus on how works and styles of art are looked at and studied, rather than the meaning/significance of the works or styles of art themselves. Students become familiar with the contributions of the most important art historians who have shaped the discipline of art history. During the semester we examine traditional as well as postmodern methodologies including formalism,

biography, iconology, Marxism and feminist deconstruction, psychoanalytic and semiotic approaches (including structuralism and post-structuralism).

ARH 4000:Historical Studio Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and (ART 1100 or ART 1150)

This course examines one of four art historical periods by combining lecture/discussion with practical applications. The first week explores the character of the period as it developed according to historical, social, cultural and artistic trends, while the second week involves the practical application of painting techniques that were developed in the Italian Renaissance and applied by academics of art until the beginning of the twentieth century.

Notes: May be repeated for credit when topics vary; BFA students may use this course for only one of their 3000-4000 level art history requirements.

ARH 4150:African-American Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850

An introduction to African-American art designed to explore the diverse aesthetic expressions of African-American artists from colonial times to the present. Through an examination of aspects of the religious, social, cultural and creative history of Black Americans, students will develop an understanding of the wealth of contributions made by people of African descent to the development of American art and culture.

ARH 4400:Directed Study

1-3 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected topics of an advanced nature, which may include original research projects.

Notes: Can be used in upper-level course requirements only twice with no more than 3 hours credit given each time.

ARH 4490:Special Topics in Art History

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: ENGL 1102 and (ARH 2750 or ARH 2850)

Selected special topics and seminars of interest to faculty and upper-level students interested in art history.

ARH 4500:Women in Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850

This course introduces students to the history of women in the visual arts, particularly as artists, but also as subjects, focusing on western Europe and the Americas. It also considers the evolution of feminism and its applications in art history.

ARH 4700:Victorian Art and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

This course is in a seminar format. Unlike the straightforward lecture approach of survey courses, a seminar is a forum for open discussion of pertinent topics. The Victorian Period covers the reign of Queen Victoria of England, who sat on the throne from 1837 to 1901. An initial overview will touch on several different topics that define the Victorian era, and subsequent classes will consist of student presentations and in-depth class discussions based on assigned readings.

ARH 4750:American Landscape Painting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850 and ENGL 1102

This course consists of an in-depth exploration of the phenomenon of American landscape painting. It traces the development of this discipline in the United States and explores the artistic, social, political and historical implications of the images within the context of American Romanticism, Impressionism and Realism from its beginnings in the early eighteenth century to the beginning of the twentieth century.

ARH 4820:History of Printmaking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 and ARH 2850

This course introduces students to the rich and varied art history of prints in relief, intaglio, serigraphy, lithography and other graphic media. From the early Renaissance in Europe, to Edo Japan, to the 21st century, a variety of major artists have engaged in this challenging art form. This course covers the evolution of print processes and meanings through the centuries.

ARH 4840:History of Graphic Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This is a lecture/discussion course in which students will study the major developments in graphic design from the Industrial Revolution to the present. This course will familiarize students with major trends in European and American design, with a particular focus on graphic design in the context of art history and the history of material culture. Organized as a survey course, the class will focus on key examples of styles and innovations in graphic design, as they developed in relationship to their times and places. Students will recognize similarities and differences between the work of significant designers, and contemporary developments in modernist visual art, and the theoretical underpinnings of major design movements.

ARH 4870:History of Photography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850

A selective survey of nineteenth and twentieth century photography, primarily in Europe and America, emphasizing photography's development as an artistic medium. Focus is on major practitioners of the medium, and on photography's relationship to historical events, psychology, sociology and the development of art and architecture.

ARH 4880:History of Textiles and Fashion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores the history of textile and fashion to understand past to present usage of certain materials and how those materials influence past, current, and future fashion trends.

ARH 4900:Contemporary Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 2850

This course begins with a consideration of the general reaction to Western Modernism that began in visual art after the 1950s and has come to be known as the period of "Postmodernism," and proceeds to examine issues that define art and challenge artists today. Themes include but are not limited to originality, appropriation, deconstruction, identity politics, post-feminism, commodity critique, installation and performance, digital media, activism and globalism. Students become familiar with the key artists and critics whose ideas informed postmodernism and continue to inform artistic practice today, and the class examines art and critical theory associated with major themes that have emerged in recent art locally, nationally, and globally.

ARH 4990:Senior Capstone Project

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ARH 3990 and ENGL 1102; senior status.

This senior capstone course completes the curriculum of the art history major by requiring students to write a substantial paper and to give a presentation.

Asian Studies

ASIA 1102:Introduction to Asian Cultures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an overview of key concepts, themes, strategies, and methods in Asian Studies. This course focuses on traditional and contemporary cultures of East and South Asia, especially those of Greater China, Japan, Korea and India. The cultural investigation of Asia is infused with the historical, geographical, economical, political, and religious study of this region. This course also explores the identities of people in Asia and Asian Americans.

ASIA 3001:Understanding Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This is the introductory course to KSU's Asian Studies Program. The course uses an interdisciplinary approach to understand Asia's ever-changing contexts. With emphasis on greater China, India, Japan, Korea, and Southeast Asia, the course provides the foundation for further studies of Asia including an overview of the region, connecting past influences to the present. Students examine the origins and development of Asian civilizations from the aspects of geography, people, society, history, philosophy, religion, politics, economy, literature and arts.

ASIA 3306:Understanding China through Films

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course is an exploration of China's culture, history, and society through screening and analyzing prominent Chinese films. Placed in different historical contexts, the selected films address the fundamental question of the continuity between the cultural tradition and socio-economic organization of the past and the elements of change and "modernity" in the present. Course topics include China in tradition; social transformation; identity, gender, and love; intercultural communication; and opportunities in the era of globalization. Readings and discussions are in English.

ASIA 3309:Survey of Chinese Literature and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

ASIA 3309, cross-listed as FL 3309, is a survey of Chinese literature and culture, examining major works and literary and artistic movements as well as cultural issues. Readings and discussion in English; some readings in the original for Chinese language students.

ASIA 3340:Contemporary South Asian Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2110

This course explores South Asian experiences by examining diverse aesthetic and cultural perspectives from 20th and 21st century diasporic South Asian literature. In order to familiarize students with the diverse South Asian population, this course introduces students to a variety of South Asian experiences through literary works from diasporic writers in this demographic. Through critical reading and analysis, reflection, discussion, and research, students discover how similar the South Asian experience is to other familiar communities.

ASIA 3355:Cultures and Capitalisms in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102 and ENGL 1102

This course compares and contrasts various forms of capitalisms and cultures in Asia to understand

the dynamics of society and political life. This course enables students to develop a global perspective on critical issues that concern policymakers, business-strategists, development-workers, and academics from an anthropological perspective. Students compare and contrast various forms of capitalism in Asia from an anthropological vantage point for understanding dynamics of society and political life in Asia.

ASIA 3500:Culture & Society of Postwar Japan

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Drawing on interdisciplinary texts (including ethnographic, historical, legal, and literary), this course provides students with an introductory overview of modern Japan, from the postwar to the present. Topics of the course include family, community, youth culture, minority cultures, gender, and sex.

ASIA 3760:Asian American Cultural Identities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This interdisciplinary course provides students opportunities to examine cultural identity issues of Asian Americans, the fastest growing ethnic minority group in the US. Through a variety of interdisciplinary learning materials and activities, students will gain understanding and appreciation of the complex concept "Asian Americans."

ASIA 3780:Trends in Asian Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on current issues and trends in the field of Asian Studies. Some topics include Popular Culture in Asia, Pan-Asian Cinema, Gender in Asia, and Environmental Issues in Asia. This course is interdisciplinary and includes Asian content in English. Course may be repeated with a change in content.

ASIA 3950:Technology Strategy in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This is a case study course that looks at organizational approaches to the integration of technology in multiple cultures. In this course, students will look at the international high-tech mindset, from business, social, financial markets, and personal life.

ASIA 4001:Teaching English in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course provides students with knowledge of the socio-cultural issues related to the classroom in

Asia. The focus of the course spans both cultural and social issues associated with classroom management in an Asian setting.

ASIA 4400:Directed Study

Variable 1-3 Credit Hours

Prerequisite: Approval of instructor and department chair prior to registration

Directed Study is a course in which a student works with a supervising faculty member to investigate a selected advanced topic not served by the existing curriculum.

ASIA 4422:Archaeology of Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ANTH 1102 or ASIA 3001 or permission of the instructor.

This course examines cultural and historical developments in Asia from approximately 10,000 BCE through 1600 CE. Students learn about the rise of complex societies, cities, and states; early economies; empires; and the role of archaeology in modern Asia. Along the way, students engage in major debates that have arisen from competing interpretations of the archaeological record.

ASIA 4435:Sociology of South Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Learning Support Prerequisites:

none ***Prerequisite:*** ASIA 1102

This course examines social change and development in the South Asian societies through a historically informed analysis of social institutions in the region. Some of the key themes explored include contested histories, identity politics and nationalism, democratization, growth, poverty, and inequality. The course includes case studies from Afghanistan, Bangladesh, Bhutan, Nepal, Pakistan, and Sri Lanka, but its main focus is on India.

ASIA 4457:South Asian Politics: A Comparative Perspective

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ASIA 3001

This course is an overview of the main issues that overlay politics in Sri Lanka, Bangladesh, India, and Pakistan. It covers the common historical background and the development of political institutions across the region. The course highlights the main cleavages along which politics are organized and related political, social, and economic outcomes, including the political party system, economic development, social movements, and ethnic conflict.

ASIA 4517:Tea Cultures in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course explores the significance of tea to Asians, and demonstrates how and why tea becomes

such an important social beverage in Asia. Students have the opportunity to gain a deeper understanding and appreciation of Asian cultures and customs.

Astronomy

ASTR 1000K:Introduction to the Universe

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1111

Students will learn the history of astronomy up to the Copernican Revolution including Galileo, Kepler, and Newton. They will also explore the workings of modern telescopes and study an overview of the solar system and the search for extra-solar planets. In lab students will use planetarium simulation software to explore the concepts and methods of observational astronomy.

ASTR 1010K:Introduction to the Universe II

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1111

Students will learn the structure and life cycle of stars and the classification of galaxies. They will also explore cosmology and the early development of the universe. In lab students will use planetarium simulation software to explore the concepts and methods of observational astronomy.

Biology

BIOL 1107:Biological Principles I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course is an introduction to cell and molecular biology as well as molecular and population genetics. Students who successfully complete the class should be able to describe the fundamental biology of the cell, including cellular anatomy and cellular metabolic processes in both plants and animals. Students will also use molecular genetics to describe the basis for heredity and how this is expressed in populations as well as how it informs evolutionary principles.

BIOL 1107L:Biological Principles I Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 1107

This lab complements BIOL 1107. Students will learn how to use scientific equipment to explore the cell and molecular biology in plant and animals as well as the biochemistry of life. Students will learn about experimental design and how to generate and interpret scientific data.

BIOL 1108:Biological Principles II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L)

This is the second course in a two-semester sequence covering the fundamental principles of biology. Students will explore the evolution and diversity of life in this course. Students will have additional focus on organismal anatomy and physiology as well as learning basic principles of ecology.

Notes: For science majors.

BIOL 1108L:Biological Principles II Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 1108

This lab corresponds with the organismal biology topics covered in BIOL 1108 lecture. Students will examine phylogenetics, organismal diversity, ecological principles, and physiology through a combination of lab observations and hypothesis-testing experiments. Students are also expected to perform a fetal pig dissection in order to explore vertebrate anatomy. Application of the methods of experimental design, data analysis, and data presentation will be a major component of this course.

BIOL 2099L:Biology Teaching Assistant

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: Greater than 60 credits with at least a 3.0 GPA

Students will have an opportunity to assist in the lab portion of a biology course. Students will learn peer-to-peer communication skills, develop a deeper mastery of biological concepts, and enhance their leadership potential as they guide other students through the learning process.

BIOL 2221:Human Anatomy & Physiology I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CHEM 1151 and CHEM 1151L) or (CHEM 1211 and CHEM 1211L) or (PHYS 1111 and PHYS 1111L) or (BIOL 1107 and BIOL 1107L)

The course begins with cellular chemistry and function, tissues, and continues through the nervous, skeletal and muscular systems. Homeostasis and structural and functional relationships will be emphasized. Primarily recommended for students interested in nursing, physical therapy, occupational therapy, exercise science, and sports management. Cannot be used for credit toward a degree in Biology.

BIOL 2221L:Human Anatomy & Physiology I Laboratory

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 2221

Basic anatomy and physiology of the skeletal, nervous, and muscular systems as well as basic histology. Structural and functional relationships will be emphasized.

BIOL 2222:Human Anatomy & Physiology II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 2221

A continuation of Biology 2221. Emphasizes homeostasis and structural and functional relationships in the study of cardiovascular, respiratory, urinary, digestive, endocrine, and reproductive systems. Primarily recommended for students interested in nursing, physical therapy and health, physical education, and sports science. Cannot be used for credit toward a degree in Biology.

BIOL 2222L:Human Anatomy & Physiology II Laboratory

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: BIOL 2222 and BIOL 2221L **Concurrent:**

BIOL 2222

Basic anatomy and physiology of the cardiovascular, respiratory, digestive, urinary endocrine, and reproductive systems. Structural and functional relationships will be emphasized.

BIOL 2261:Fundamental Microbiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 2221 and BIOL 2221L

This course will explore basic principles and techniques of microbiology. Students will learn about the various morphologies and metabolic processes within microbes and their relationships to humans.

Notes: Primarily for nursing majors; cannot be used for credit toward a degree in Biology.

BIOL 2261L:Fundamental Microbiology Laboratory

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: BIOL 2221 and BIOL 2221L **Concurrent:**

BIOL 2261

This course teaches the basic principles and techniques of microbiology emphasizing fundamental isolation, identification, and culture techniques.

Notes: Primarily for nursing majors. Cannot be used for credit toward a degree in Biology.

BIOL 3110L:Directed Methods

1-3 Credit Hours

Prerequisite: BIOL 1107 and BIOL 1107L and permission of the instructor.

This course will allow students to gain in-depth skills with a specific set of research methodologies through direct involvement in faculty-led research or scholarship. Course content and instructional methodologies will be identified by the faculty's needs and expectations.

BIOL 3250K:Ecosystem Ecology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (CHEM 1211 and CHEM 1211L)

Students in ecosystem ecology will study how energy and material flows and cycles through both the living (plants, animals, microbes) and non-living (soils, atmosphere) components of natural systems. Classes and lab exercises will be used to examine the influence of biological, geological and chemical processes. Students will consider factors that alter ecosystem function including human activities, from the molecular to the global scale.

BIOL 3300:Genetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (CHEM 1211 and CHEM 1211L)

This course presents fundamental principles and applications in genetics. Students learn how traits are inherited and to use this information in predicting and analyzing genetic outcomes. Students study nucleic acid structure, learn how DNA replicates and how genes are expressed. Mutation at the gene and chromosomal levels will be surveyed, and their effect on gene structure and function examined. Finally, students will explore various genetic methods, including pedigrees, mapping, and molecular techniques.

BIOL 3300L:Genetics Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 3300

This course is designed to reinforce principles and applications of transmission genetics, cytogenetics, and molecular genetics. Students will learn to use problem-solving, data analysis and quantitative methods to explore genetics. Exercises in molecular biology will expose students to methods of recombinant DNA technology.

BIOL 3301K:Introduction to Biotechnology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (BIOL 3300 and BIOL 3300L)

This course introduces students to the concepts, methods, and equipment currently associated with the field of biotechnology. Students learn the applications of microbes, plants, and animals in the context of food, medical, environmental, and forensic biotechnology. Students gain practical, hands-on experience with a variety of techniques commonly used in biotechnology.

BIOL 3310K:Invertebrate Zoology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (CHEM 1212 and CHEM 1212L)

This course is a survey of invertebrate animals. Students will explore the varied range of anatomical, physiological, and ecological relationships among these organisms in order to develop an

understanding of evolutionary processes that brought about present day patterns in the biodiversity of animal phyla. In lab, students will collect, observe and identify common invertebrate taxa, and relate observed adaptations of form and function to habitat.

BIOL 3315K:Vertebrate Zoology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

Students will use phylogenetic methods to explain evolutionary origins, ecological relationships, and life history traits of vertebrate organisms. In laboratories, students will identify North American vertebrates and analyze the relationship between morphology and taxonomy.

BIOL 3317:Pathophysiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 2222 and BIOL 2222L) or BIOL 4431

Examines the biological basis of common, clinical disease states. Pathophysiology is treated as a disruption of normal homeostatic mechanisms that progresses beyond the normal compensatory capabilities of the human body.

BIOL 3320K:Plant Morphology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

In this course students will explore the evolutionary trends and relationships of the phyla of non-vascular and vascular plants, as well as a number of groups of algae. Students will examine vegetative and reproductive morphology across varied life cycles and through paleobotany. Laboratory work is closely tied to lecture material and includes examination of microscope slides as well as dissections and observations of morphological features of specimens. Students will make drawings of many of their specimens. A trip to the Atlanta Botanical Gardens is required.

BIOL 3327:Medical Genetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300 or consent of the instructor.

An introduction to the principles of medical genetics and the application of these principles to human genetic disorders. Topics include inborn errors of metabolism, cytogenetic anomalies, neural tube defects, and application of molecular genetics to the diagnosis of specific disorders. Genetic counseling procedures, prenatal options and the ethical dilemmas generated as a result of these options will also be discussed.

BIOL 3330K:Biology of the Algae

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

This course covers the physiology, ecology, systematics, and diversity of marine and freshwater

algae. In particular, students will explore the role of algae in biogeochemical cycling, the evolution of photosynthesis, and ecosystem function in a changing biosphere. The course also focuses on the applied aspects of algal biology by examining their use as indicators of ecosystem health, food sources, and other social, cultural, and economic commodities. Field collections and experiments are an integral part of the course.

BIOL 3335:Natural History of Georgia

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3370

This course examines the flora, fauna, geology, and environments of selected Georgia ecoregions. Students will learn the historical and geological development of the state's major habitats and landforms, which are examined by way of two four-day, overnight field trips during the Maymester term.

BIOL 3338K:Histology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

This course is an investigation of structural and functional relationships in animal tissues. Students will learn to identify functional groups of tissues and relate them to organ functionality. In laboratory studies, students will practice the microscopic analysis of cells, tissues and organs to understand their structural organization from normal animal specimens.

BIOL 3340:Microbiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

This course is a study of prokaryotes, unicellular eukaryotes and viruses. Students will learn about the nature of microorganisms and the techniques used to study microbes. Students will explore the morphology, metabolism, growth, and genetics of various microbes.

BIOL 3340L:Microbiology Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L) **Concurrent:** BIOL 3340

This course emphasizes basic microbiology methods. Students will learn to culture, identify and quantify microorganisms. Students will also explore applications of microbiology, including food and environmental microbiology

BIOL 3341K:Advanced Microbiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3340.

This course explores microbial evolution, ecology and diversity. Students will explore infectious

diseases and epidemiology to learn the applied uses of microorganisms in industry, agriculture and medicine. The laboratory exercises will help students learn the natural occurrences and processes of microbes in the environment and gene transfer in bacteria along with techniques for the isolation and identification of pathogens, and the use of microbes in industry.

BIOL 3370:Ecology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and STAT 3125

Relationships among living organisms and their environments at the individual, population, community and ecosystem level.

BIOL 3370L:Ecology Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 3370

In laboratory and field activities students will utilize inquiry-based activities that emphasize environmental sampling procedures and statistical analysis of data to explore the role of variability and uncertainty in scientific decision-making as related to ecological processes.

BIOL 3371K:Freshwater Ecology

2 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L)

Students will develop a comprehensive and integrated understanding of physical, chemical, and biological processes occurring in lakes, streams, and wetlands. Particular emphasis will be placed on the ecology of aquatic organisms and the structure and function of freshwater communities and ecosystems that they inhabit. Laboratory exercises will use the scientific method to investigate and contrast basic ecological processes operating in various systems.

BIOL 3372K:Aquatic Biodiversity

2 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3370 and BIOL 3370L or permission of the instructor.

This course is an introduction to the major plant and animal taxa found in aquatic ecosystems. Students will develop field and laboratory identification and collection skills while examining major ecological and biogeographical factors influencing distribution and abundance of aquatic organisms. Notes: A series of three weekend field trips are required.

BIOL 3373K:Methods in Aquatic Ecology

2 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and STAT 3125

This course provides students experience in design and execution of studies in aquatic ecology. Students will gain experience with field and lab techniques to conduct aquatic research in various

aquatic assessments and wetlands delineation. Students will learn techniques for sampling fish, aquatic invertebrates and aquatic plants as well as techniques in aquatic toxicology. Field experiences are an integral part of the course.

BIOL 3375K:Behavioral Biology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L) and (BIOL 1108 and BIOL 1108L) or comparable research methods course.

Students will explore the major concepts in behavioral biology. Students will relate neurophysiology to ethology and ecology, and will include a look at the behavior of social organisms. In the laboratory, students will use a quantitative approach to test hypotheses while observing the behavior of animals.

BIOL 3380:Evolutionary Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300

Students will study the fundamental questions of evolutionary biology, and focus on how processes such as natural selection, mutation, and drift form the genetic basis of evolutionary change. Students will investigate the role that adaptation, speciation, and genome evolution have played in the diversification of Life on Earth over time. Students will explore the application of evolutionary principles, such as phylogenetic inference, to human health, disease, and conservation efforts.

BIOL 3396:Cooperative Study

Variable 1-3 Credit Hours

Prerequisite: Approval of Program Coordinator and Coordinator of Cooperative Education/ Internships (Career Services).

A supervised work experience program for a minimum of two academic semesters at a previously approved site in business, industry or government or a private agency. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

Notes: Can be applied to free electives only.

BIOL 3398:Practical Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Approval of major area committee and Program Coordinator prior to registration.

This course is a supervised, credit-earning, academic experience with a previously approved business firm, private agency or government agency. Students will learn to integrate biological skills and concepts with appropriate business or agency practice.

Notes: Credit is allowed only in elective areas.

BIOL 3400:Drugs and Biologics: From Conception to Regulatory Approval

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300 and (CHEM 3361 and CHEM 3361L)

This course examines the discovery and development of new pharmaceuticals and biologics. Students will learn the process of drug discovery and the role of the FDA and regulations in that process. Students will evaluate how drug entities are characterized through non-clinical testing and clinical trials.

BIOL 3410:Cell Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (BIOL 3300 and BIOL 3300L)

Modern cell biology is a unifying subject that describes the structure and function of cells in genetic, biochemical, biophysical, developmental and pathophysiological contexts. Students will learn a contemporary view of cell structure and function, including the relationship between membranes, organelles, transporters, and signaling components during the life of a cell, with an emphasis on eukaryotic systems.

BIOL 3650:Marine Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L)

Students will explore the physical and biological aspects of the marine environment and describe the impact of humans on this ecosystem. Students will utilize an ecological approach to explore marine flora and fauna.

BIOL 3700K:Ichthyology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L)

This course examines the diversity of fishes. Students will learn the anatomy, physiology, evolutionary history, and ecology of these organisms.

BIOL 3720:Sustainability at KSU

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) or GEOG 1113

The course includes an in-depth survey of Sustainability efforts in the areas of campus facilities and curriculum at Kennesaw State University and is especially relevant for students with interest in the area of Environmental Studies. The course has a service-learning component in which teams of students examine aspects of KSU's sustainability activities and develop proposals to improve or enhance ongoing efforts or introduce new ones.

Notes: This course is cross-listed with ENVS 3720

BIOL 4000:Service Learning in Biology

1-3 Credit Hours

Prerequisite: 60 hours and permission of instructor and department chair/program director.

A community activity that links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

BIOL 4100K:Molecular Genetics

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3300

This course covers molecular genetics theory and practice. Students will examine gene structure and function to learn about genetic engineering and bioinformatics. Students will explore DNA structure, replication, and manipulation to understand sequencing, gene expression, and gene cloning. In the laboratory, students will create recombinant DNA, isolate and purify DNA for mapping and sequence analysis and examine the applications of real-time polymerase chain reactions.

BIOL 4110K:Global Biotechnology-Study Abroad

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3300

This course combines the best of both worlds - takes students beyond the typical tourist experience and immerses them in another culture and academic setting for a period of time. Students get the opportunity to engage in activities that increase their knowledge of and appreciation for global issues, languages, history, arts, literature, geography, and diversity of another country. Students will learn about the role of biotechnology and its application in industry with a global perspective.

BIOL 4115:Parasitology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 1108 and BIOL 1108L

This course examines the biology of parasites of major medical/veterinary importance. Students will learn how parasites are transmitted to their host(s) and the pathologies that are generated from host-parasite interactions. Students will also examine the epidemiology of parasitic infection, as well as the methods for suppressing parasites in host populations.

BIOL 4200:Industrial Microbiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3340.

This course is a detailed survey of advanced microbiological methods used in industry. Students will learn to identify bacterial and fungal microbes found in biosafety and environmental monitoring. In laboratory, students will learn to validate appropriate methods and prepare sterile media for culturing aerobic and anaerobic microbes. Students will also use quantitative methods to produce fermentation in batch and continuous cultures.

BIOL 4242K:Ecological Genetics

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L

This course encompasses the fields of ecology and genetics as they apply to population genetics and conservation and management of natural resources. Students will explore the issues pertaining to the measurement and management of genetic diversity in wild and captive populations and will learn to apply evolutionary concepts to populations and population management.

BIOL 4300K:Chromosome Preparation and Analysis

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3300 **Corequisite:** BIOL 3327

This extensive preparatory course is designed to give students hands-on experience with the methods used in the preparation of human chromosomes. Collection techniques, culture procedures, harvesting protocol and slide preparation will be followed by analysis and interpretation of karyotypes. Fluorescent in situ hybridization (FISH) will be performed. Array comparative genomic hybridization (aCGH) theory and practice will be discussed. Proper use of various types of microscopes and image capture and analysis by computer will be performed.

BIOL 4310L:Cytogenetics Practicum

0 Class Hours 25-35 Laboratory Hours 5-7 Credit Hours

Prerequisite: A grade of "B" or better in BIOL 4300K, a grade "C" or better in BIOL 3327, and approval by the director of the KSU Cytogenetic Technology Program

This course is a supervised, credit-earning work experience of two academic semesters in a clinical cytogenetics laboratory affiliated with either a university hospital or a company. The extensive clinical laboratory training includes routine cytogenetic techniques such as G-banding, as well as advanced techniques such as fluorescent in situ hybridization (FISH) and array CGH (Comparative Genomic Hybridization). Upon the completion of the internship, the student is eligible to sit for the ASCP BOR (American Society for Clinical Pathology Board of Registry) certification exam.

BIOL 4322:Plant Systematics

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 1108 and BIOL 1108L)

This course explores the evolutionary relationships of land plants and how those relationships relate to modern and historic classification systems. Students learn the major orders and families of flowering plants along with the skills to identify plants to genus and species in the field and from preserved specimens. The course has a major lab and field component, and students are expected to attend two weekend field trips.

BIOL 4333:WIKled Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 1108 and BIOL 1108L

In this course students use the internet as a dynamic, participatory and collaborative medium to create new, scientifically valid, web based syntheses of biological concepts that may be used to disseminate information on the World Wide Web. Through this process, students learn to judge web sites, acquire a deeper understanding of biological concepts, develop skills of self-monitoring and reflection, and become more proficient in current advances in technology and communication

BIOL 4350K:Comparative Vertebrate Anatomy

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (CHEM 1211 and CHEM 1211L)

Students will explore a survey of representative vertebrates and related chordates emphasizing phylogeny and anatomical adaptations. Students will investigate evolutionary trends in the context of large-scale environmental changes that have occurred over geologic time. Using a comparative, systems-based approach, students will explore the relationships between structure and function. In the lab, students will learn to dissect selected vertebrate organisms and study anatomical adaptations among these representative models to recognize the relationships between form and function.

BIOL 4390K:Developmental Biology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 3300 and BIOL 3300L) and BIOL 3410

Students will explore the fundamental questions of developmental biology , focusing on both classical experiments and modern molecular and genetic techniques. Students will investigate how differential gene expression and cell-cell communication generate new tissue types, specify the body axes, form the nervous system, and determine sex. Students will explore the role of development in human health and disease. In the laboratory, students will conduct experiments to test hypotheses about the mechanisms of cellular differentiation and morphogenesis.

BIOL 4399:Seminar

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: BIOL 3410 and 90 credit hours or permission of the instructor.

Students will learn selected topics of current interest announced during registration.

BIOL 4400:Directed Study

1-4 Credit Hours

Prerequisite: Approval of instructor, major area committee and Biology/Physics Department Chair prior to registration.

Students will learn selected topics of an advanced nature and may include original research projects.

Notes: Up to eight hours may be applied to the major area.

BIOL 4402:Research Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: (BIOL 3300 and BIOL 3300L) and two BIOL 3000/4000 level biology lab courses; approval of the internship coordinator and Biology and Physics department chair prior to registration. This course is a supervised, credit-earning research-based experience of one academic semester with an approved business firm, private agency or government agency. The experience is academic in nature and students will learn to collect and/or manipulate scientific data to produce an academic presentation. The preparation of a research proposal prior to the experience is required.

BIOL 4411K:Stem Cell Technology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L

Stem cells offer great promise for modern medicine. This course gives students hands-on experience in handling, differentiating, analyzing and purifying stem cells in culture. Students will also gain a broad understanding of in vivo stem cells, including the developmental aspects of cellular self-renewal and tissue regeneration. This is a lab intensive course and will feature in-lab lectures, a formal written component, and in-class presentations.

BIOL 4412K:Cell and Tissue Culture

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3410

This course examines the basics of culturing eukaryotic cells, tissues, and organs in vitro. Students will learn the basic cell culture techniques and how they apply to cell lines and primary organ cultures. The application and potential of stem cells and tissue engineering will also be discussed. In laboratory, students will learn how to propagate adherent and non-adherent cell lines and have an opportunity to create primary cell and organ explants cultures. Students will also apply knowledge of aseptic techniques to plant tissue culture applications.

BIOL 4420K:Plant Physiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L), and CHEM 3361

Plant physiology is the study of plant function. Students will learn how plants obtain, transport and utilize water, mineral nutrients, and organic molecules. Students will be introduced to mechanisms used in defense against pathogens and herbivores and learn how environment and hormones control plant growth and development. Students will examine each process at the biochemical, cellular and organismal level. Laboratory studies will introduce students to contemporary approaches used in the study of plant physiology.

BIOL 4422K:Plant Ecology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 1108 and BIOL 1108L

Students will learn aspects of physiological responses of plants to their environment, methods to determine plant population growth and plant distribution patterns, as well as interactions among plants and other organisms. They will use science as a process and learn to argue scientific points of view persuasively. Students will also learn to use classical and modern technologies to address questions in plant ecology.

BIOL 4431:Human Physiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (CHEM 1212 and CHEM 1212L)

This course is designed to introduce biology majors to the fundamentals of mammalian physiology, with the human as the model organism. This course emphasizes the normal functioning of the human body, homeostatic mechanisms, and the relationship between form and function; however, disease states will be described at various times to illustrate how normal functions become disrupted.

BIOL 4431L:Human Physiology Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

BIOL 4431

In this laboratory students will learn how to measure physiological variables across systems using human and non-human models. Students will explore the principles of homeostasis across systems complementing the lecture by gathering and communicating the analysis of appropriate data from a number of experimental systems.

BIOL 4432K:Human Anatomy

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (CHEM 1211 and CHEM 1211L) and (BIOL 1108 and BIOL 1108L)

This course examines the anatomical structure of the human body, with emphasis on the relationship between form and function. Students will learn the anatomy of the human body by examining individual organ systems, both from a macroscopic and microscopic perspective.

BIOL 4440:Toxicology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and CHEM 3361

This course is an introduction to the principles and mechanisms of toxicology as applied to toxicants encountered in the environment. Students will learn how toxins are absorbed, distributed, stored, and eliminated across a range of organisms. Students will also explore the transport of environmental contaminants and the characteristic of specific classes of toxicants as they relate to testing and regulation.

BIOL 4450:Team Research

1-4 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L and permission of instructor.

This course is a group experience in biological research in which class members form a research team to design, perform, analyze and write up for publication a single project or group of related projects under the supervision and direction of a faculty member.

BIOL 4455:Case Studies in Forensic Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L; Recommended - CRJU 3320

This course will discuss the role and application of forensic science in criminal investigations and legal proceedings. Students will learn forensic DNA analysis and other aspects of forensic science as utilized in the modern US legal system.

BIOL 4460K:Medical Microbiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3340

This course will explore the disease process of, the immune response to, and the prevention and treatment of the medically important Monera, Viruses, Fungi and some microscopic Protista with emphasis on emerging infections, including a laboratory experience that focuses on enhancing laboratory and investigative skills.

BIOL 4465:Immunology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L; Recommended - BIOL 3340

This course will explore current concepts of the immune system. Emphasis will be placed on the induction of the immune response, on the mechanism(s) of those responses, and on the mechanism(s) by which the immune system protects against disease. The development and the role of each of the components involved in the immune response as well as immunological applications will be discussed.

BIOL 4470:Methods in Forensic DNA Analysis

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300 and BIOL 3300L

This laboratory-intensive course will introduce students to the techniques currently used in Forensic DNA profiling by crime labs across the country. In laboratory activities students will extract and purify DNA and utilize PCR-based profiling methods. Students will also learn to interpret data and generate reports. Discussions will include the historical development of DNA profiling, and the development of new profiling methods. Legal issues associated with quality control, frequency estimates, chain of custody, and admissibility will also be explored by students in the class.

BIOL 4475:Virology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300; Recommended - BIOL 3340

This course will explore current concepts associated with the field of virology. The structure and genetic composition of viruses as well as strategies for replication and expression of viral genetic material will be explored. Mechanisms of viral pathogenesis will be presented. In addition, current methods for viral diagnostics, prevention of viral infection and treatment of infected individuals will be presented within the context of viruses of historical significance as well as newly emergent viruses of current medical concern. Novel infectious agents such as satellites, viroids and prions will also be discussed.

BIOL 4476:Mycology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300

This course is the study of unicellular and multicellular fungi. Students will explore the nature, morphology, cell structure, growth and metabolism of fungi. Students will be able to understand the beneficial and the harmful role of fungi in an ecosystem and will learn methods of controlling harmful fungi. Students will learn gene manipulation techniques in the development of Biotechnology products using fungi as vectors.

BIOL 4480:Food Microbiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3340

This course covers various aspects of food microbiology. Students will learn the source of microbial contamination during food production, processing and storage and the factors influencing microbial growth in foods. Students will explore the role of microorganisms in food spoilage, illnesses, fermentation, and preservation. In the laboratory, students will learn the methods used to isolate, enumerate, identify, or control microorganisms in food. The laboratory is an integral part of the course, allowing students to apply microbiological concepts in laboratory exercises.

BIOL 4486:Bioethics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3300, plus a minimum of 9 additional hours of 3000-4000 level Biology or Biochemistry or consent of instructor.

This course will enable the student to think more critically about some of the difficult moral problems which arise in the practice of science and from our contemporary understanding of living systems and biotechnology. Readings and discussion will focus on issues of personal decision making and public policy regarding both biomedical and environmental issues.

BIOL 4490:Special Topics in Biology

1-4 Credit Hours

Prerequisite: Varies as to topic.

Selected special or current topics of interest to faculty and students.

BIOL 4500K:Bioinformatics I

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: A grade of "B" or better in BIOL 3300; MATH 1190; or permission of the instructor.

Concurrent:

BIOL 3410

Students use the fundamental concepts of biological sequence analysis, including information flow in biological systems and use of sequence and structure databases in research and drug discovery, which are the underpinnings of the genomic revolution. Students will: assemble sequencing reads into contigs; find and annotate protein coding genes; search biological databases; perform sequence alignments; analyse the phylogenetic relationships between sequences; assess the statistical significance of assembly, search and alignment results; and predict protein structure.

BIOL 4510K:Bioinformatics II

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 4500K

This course emphasizes the principles of laboratory generation, bioinformatics and other computational analysis, and practical application of results from real-world data drawn from genomics-level research projects at KSU and elsewhere. Students will perform genome-wide association studies, assemble transcriptomes, quantitate and visualize differential expression, and analyze cellular interaction networks. Students will use data that spans and integrates many levels of biological organization, multiple 'kingdoms,' and diverse applications (e.g., human health, agriculture, industrial microbial processing).

BIOL 4550:Cancer Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 3410

This course will cover the underlying biochemical, molecular and cellular events involved in carcinogenesis, tumor growth, and metastasis. This will include signaling pathways, proteins and regulatory networks involved in cell growth, cell death and tissue organization. Students will also be introduced to modern biochemical and molecular techniques used to dissect the molecular mechanisms controlling cancer development as well as a knowledge of the latest breakthroughs in cancer therapeutics.

BIOL 4610:Advanced Topics in Anatomy & Physiology

1-4 Credit Hours

Prerequisite: BIOL 3410

This course covers advanced topics in physiology that may fit the needs and interests of highly select students. Students may learn advances in laboratory techniques or even microbial and cellular physiology.

BIOL 4620:Advanced Topics in Ecology & Evolution

1-4 Credit Hours

Prerequisite: BIOL 3370 or BIOL 3380

Advanced topics in ecology and evolution that may fit the needs and interests of students and faculty. Such topics might include advanced lab and field techniques, microbial ecology, evolution of specific taxa, biology of gender.

BIOL 4630:Advanced Topics in Cell & Molecular Biology

1-4 Credit Hours

Prerequisite: BIOL 3410

This course covers advanced topics in cell or molecular biology that may fit the needs and interests of highly select students. Student may learn such topics as advanced microbial genetics, or the biology of cancer.

BIOL 4635:Advanced Topics in Microbiology

1-3 Class Hours 0-3 Laboratory Hours 1-4 Credit Hours

Prerequisite: BIOL 3340

This course covers advanced topics in microbiology that may fit the needs and interests of highly select students. Student may learn topics like microbial ecology, mycology, or even protozoology.

BIOL 4800K:Diagnostic Microbiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 3340 and BIOL 3301K or permission of the instructor.

Students will learn the design and application of advanced microscopy, antibiotic sensitivity testing, antibody-based assays and nucleic acid techniques for the detection and identification of infectious agents.

Biology Education

BED 4490:Special Topics in Biology Education

1-6 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

Business Administration

BUSA 1000:Introduction to Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Freshman or Sophomore standing; Non-business Majors: None. Broad-spectrum analysis of business enterprise, its nature, environment, organization, management, operation and control procedures.

BUSA 2150:Discovering My Major and Career

0 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: ENGL 1101

This is the first course of a 3-course, zero-credit hour, hybrid program designed to help Coles College students prepare for success in their upper-division BBA courses and after graduation. In this course, students research careers and majors, identify their desired major, and prepare professional communications describing their research and career objectives. Understanding the career(s) associated with their chosen major will help students progress toward their degree with purpose, on track and on time.

BUSA 3150:Developing My Career Essentials

0 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: BUSA 2150 and a business or business-interest major. Not available to non-business majors.

This is the second of a 3-course, zero credit, hybrid program designed to help Coles College students prepare for success in their upper-division BBA courses and after graduation. In this course, students will explore their talents, skills and strengths, and become more self-aware through personal assessment. Students will develop a resume and practice their interview skills.

BUSA 3500:Culture & International Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program OR student in a Coles College Partner Program that includes this course.

This course explores the cultural challenges of doing business in another country. It will focus on how to communicate, manage and lead individuals, conduct operations, and market products in countries with different languages, characteristics, customs, values and attitudes. Because this course is offered as a part of an education abroad program, special emphasis will also be placed on the culture of the designated country(ies).

BUSA 4150:Driving My Success

0 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: BUSA 3150 and Admission to the Coles College Undergraduate Professional

Program.

This is the third of a 3-course, zero credit, hybrid program designed to help Coles College students prepare for post-graduation success. In this course, students will fine-tune the skills required to carry out an effective job search. Students will develop their personal brand, an elevator speech, and leadership style. Business etiquette and dress and negotiating strategies will be discussed. Students will update their resume and practice their interview skills.

BUSA 4490:Special Topics in Business Administration

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and the Associate Dean for Undergraduate Business Programs.

Selected special topics of interest to faculty and students

Business Law

BLAW 2200:Legal and Ethical Environment of Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

Covers torts, contracts, government regulation of business and the legal system. Also addresses ethical issues arising in business internal and external relationships.

BLAW 3400:Negotiation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200 with minimum grade of "C", 60 credit hours with a minimum GPA of 2.0, and (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course).

An examination of the theory and practice of negotiation. In addition to reviewing readings, students will participate in simulations and discuss negotiation cases to broaden their negotiating techniques.

BLAW 4100:Advanced Business Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of legislation regulating business partner-ships, corporations, commercial paper, secured transactions, sales, consumer credit and bankruptcy.

BLAW 4200:Employment Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of the influence of law on the personnel function, with special emphasis on discrimination laws and affirmative action issues. Provides an overview of various federal laws such as the National Labor Relations Act, The Fair Labor Standards Act and ERISA.

BLAW 4300:Real Estate Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Designed to provide the business student with an understanding of the nature, sources and principles of real estate law, and its importance in the business environment. Topics include: real property; contracts involving real estate, deeds and titles; transfer of real estate, mortgages, liens, zoning and land use controls, condemnation, real estate agents and landlord-tenant law.

BLAW 4400:Directed Study

1-3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and the Director of the School of Accountancy prior to registration.

Special topics of an advanced nature not in the regular course offerings.

BLAW 4490:Special Topics In Business Law

1-3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and the Director of the School of Accountancy prior to registration.

Selected topics of interest to faculty and students.

BLAW 4500:Franchise Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Designed to provide the business student with an understanding of the nature, sources and principles

of franchise law and its importance in the business environment. Topics include: fundamentals of franchising, intellectual property, FTC Rules and disclosure, requirements of franchise registration and business opportunity law and earnings claims.

BLAW 4600:International Law: Business Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Examines the international legal system and alter-native means of international dispute resolution. Covers laws that determine when and under what conditions companies are allowed to do business abroad. Cases used to explore choosing the most appropriate business relationship and entering the most advantageous agreement.

BLAW 4960:Current Issues in Business Ethics and Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An examination of contemporary issues in legal and ethical behavior in organizations. Stresses the application of ethical principles to business.

Chemistry

CHEM 1151:Survey of Chemistry I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

First course in a two-semester sequence covering elementary principles of general, organic and biochemistry designed for allied health professions majors. Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular geometry.

CHEM 1151L:Survey of Chemistry Laboratory I

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CHEM 1151

Laboratory exercises designed to supplement the lecture material of CHEM 1151.

CHEM 1152:Survey of Chemistry II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1151

Second course in a two-semester sequence covering elementary principles of general, organic and biochemistry designed for allied health professions majors.

CHEM 1152L:Survey of Chemistry Laboratory II

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 1151L. **Concurrent:**

CHEM 1152

Laboratory exercises designed to supplement the lecture material of CHEM 1152.

CHEM 1211:Principles of Chemistry I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

MATH 1113 or MATH 1190 or MATH 2202

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.

CHEM 1211L:Principles of Chemistry Laboratory I

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CHEM 1211, and (MATH 1113 or MATH 1190 or MATH 2202)

Laboratory exercises designed to supplement the lecture material of CHEM 1211.

CHEM 1212:Principles of Chemistry II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1211 and (MATH 1113 or MATH 1190 or MATH 2202)

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors.

CHEM 1212L:Principles of Chemistry Laboratory II

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 1211, and CHEM 1211L **Concurrent:**

CHEM 1212

Laboratory exercises designed to supplement the lecture material of CHEM 1212.

CHEM 2050:Introduction to Directed Research

0 Class Hours 3-9 Laboratory Hours 1-3 Credit Hours

Prerequisite: CHEM 1211 and CHEM 1211L and permission of the instructor.

This course enables freshmen and sophomores to conduct an applied research project that is directed by a faculty member. Students may earn between one and three credits per semester and this course may be repeated for up to a total of five credit hours only.

CHEM 2800:Quantitative Analytical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1212 and MATH 1190

This course introduces students to statistics; the use of spreadsheets; principles of gravimetric and volumetric analysis; concepts of chemical equilibria as applied to acid-base, precipitation and complex ion reactions; electrochemistry and potentiometry; ultraviolet-visible spectroscopy; and an introduction to modern chromatographic separations.

CHEM 2800L:Quantitative Analytical Chemistry Laboratory**0 Class Hours 3 Laboratory Hours 1 Credit Hours**

Prerequisite: CHEM 1212L **Concurrent:**

CHEM 2800

Laboratory experiments include: gravimetric analysis, precipitation, compleximetric, and reduction-oxidation titrations; potentiometric applications; calibration techniques using ultraviolet - visible spectroscopy. Tutorials on the application of spreadsheets.

CHEM 3000:Chemical Literature**3 Class Hours 0 Laboratory Hours 3 Credit Hours**

Prerequisite: CHEM 3361

An exploration of the process and practice of chemical research that leads to publication. An introduction to resources and methods for searching the chemical literature.

CHEM 3010:Medicinal Chemistry**3 Class Hours 0 Laboratory Hours 3 Credit Hours**

Concurrent:

CHEM 3501 or CHEM 3500

This course covers fundamentals of pharmacology such as drug discovery/development and pharmacokinetics, with emphasis given to the role of chemistry and biochemistry in these areas. A main focus of the course will be how drugs function at the molecular level. Examples will be chosen from drugs that target enzymes, receptors, and DNA.

CHEM 3030:Pharmaceutical Analytical Chemistry**3 Class Hours 0 Laboratory Hours 3 Credit Hours**

Prerequisite: CHEM 2800 and CHEM 3000

This course describes the major techniques used in the analysis of pharmaceuticals following the United States Pharmacopoeia. The topics include quality control, physical and chemical properties of drug molecules and various chemical analysis including classical methods, spectroscopy, and chromatography.

CHEM 3030L:Pharmaceutical Analytical Chemistry Laboratory**0 Class Hours 3 Laboratory Hours 1 Credit Hours**

Prerequisite: CHEM 3362, CHEM 3362L, and MATH 1190 **Concurrent:**

CHEM 3030

This course provides hands-on experience in the laboratory of the major techniques used in the analysis of pharmaceuticals following the United States Pharmacopeia. The laboratory experiments involve the analysis of drug molecules by dissolution, titration, molecular spectroscopy, atomic spectroscopy, GC, and HPLC including methods of extraction and thermal methods of analysis.

CHEM 3050:Physical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 2212 (or concurrent enrollment), MATH 2202 and CHEM 2800

This one semester course in physical chemistry provides a survey of thermodynamics, chemical equilibria, and kinetics. It also includes an introduction to the quantum mechanical principles important in understanding molecular spectroscopy and molecular modeling.

CHEM 3105:Inorganic Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3050 or CHEM 3601 **Concurrent:**

CHEM 3105L

In-depth study of concepts and theories of inorganic chemistry. Topics include atomic structure, bonding, coordination chemistry, reaction mechanisms, symmetry, and a general survey of descriptive inorganic chemistry.

CHEM 3105L:Inorganic Synthesis

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CHEM 3105

Laboratory course to introduce the concepts and practices of inorganic synthetic chemistry. Emphasis is on the synthesis, characterization, reactivity, structure, and other properties of the inorganic compounds and complexes. The course introduces standard methodology for the synthesis and characterization of compounds.

CHEM 3110:Bioinorganic Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3050 **Concurrent:**

CHEM 3110L

General aspects of bioinorganic chemistry will be discussed including physical methods, roles of metals in biological systems, classes of metalloproteins and metalloenzymes, and metals in medicine. The primary focus is on understanding how metals make a variety of biological functions possible through their unique properties.

CHEM 3110L:Bioinorganic Chemistry Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CHEM 3110

The aim of this laboratory is to integrate concepts from biology and inorganic chemistry by performing experiments that lie at the interface of these two disciplines. Lecture topics will be reinforced through experiments covering synthesis and analysis of bioinorganic model compounds, enzyme activity as it relates to metal availability, and metal therapeutics.

CHEM 3120:Descriptive Inorganic Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3050 **Corequisite:** CHEM 3105L

General aspects of inorganic chemistry including bond theory, periodicity, acid-base chemistry, energetics, reaction mechanisms, model systems, kinetics, redox chemistry, and descriptive chemistry of the elements with primary focus of taking students from the introductory principles of chemistry to a broader and deeper level of understanding of the chemistry across the periodic table.

CHEM 3200:Culture and Chemistry

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3361

This global learning course will expose students to the predominant chemistry conducted in the host country at the university level, as well as in industry. The culture, history, and lifestyle of the host country population will be experienced through visits to museums, landmarks, restaurants and/or historical sites. Other scientific locations of interest will also be visited to increase the interdisciplinary nature of the science to which students are exposed.

CHEM 3361:Modern Organic Chemistry I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1212

This course is the first of a two-semester sequence in modern organic chemistry. The course includes a study of structure, properties, synthesis, and reactions of basic organic compounds using modern structural and mechanical theories.

CHEM 3361L:Modern Organic Chemistry Lab I

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 1212L **Concurrent:**

CHEM 3361

Laboratory experiments designed to introduce the students to modern experimental method used in organic chemistry for separation of mixture, purification of compounds, and reactions illustrating single functional group transformation.

CHEM 3362:Modern Organic Chemistry II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3361

This course is the second of a two-semester sequence in modern organic chemistry. The course includes a study of structure, properties, synthesis, and reactions of basic organic compounds using modern structural and mechanical theories.

CHEM 3362L:Modern Organic Chemistry Lab II

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3361L **Concurrent:**

CHEM 3362

Laboratory experiments designed to introduce the students to modern experimental methods used in organic chemistry synthesis, characterization of compounds, and multi step synthesis of useful target-compounds from readily available starting material.

CHEM 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of coordinator of cooperative education/internship.

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency.

Notes: Credit is allowed only in elective areas.

CHEM 3398:Internship

Variable 1-12 Credit Hours

Prerequisite: Approval of internship coordinator and chair.

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency.

Notes: Credit is allowed only in elective areas.

CHEM 3400:The Teaching and Learning of Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3361

An introduction to the methods of effective chemistry teaching in both the classroom and laboratory settings. Current chemical education research literature on topics such as theories of teaching, active learning strategies, misconceptions, multiculturalism, laboratory design, demonstrations, and assessment will be introduced and discussed. Class meetings will include hands-on activities where demonstrations and laboratory investigations are designed, enacted, and assessed as well as discussions about research-based best practices in the presentation of chemistry concepts to diverse student populations. Time will also be devoted to ensuring that essential chemistry content such as

electro chemistry, thermodynamics, kinetics, and bonding are thoroughly understood so that they can be communicated effectively in the classroom.

CHEM 3450:Peer Leading in Chemistry

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CHEM 3361 or instructor consent.

The purpose of this course is to support and prepare students for the role of peer leader. Peer leaders work with small groups of students that are enrolled in introductory chemistry courses on a weekly basis. The course involves training in pedagogical techniques and a review of relevant chemistry concepts. Emphasis is made on reflective practices within the peer led setting. Enrollment by permit only.

CHEM 3500:Biochemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3362

This course is a one-semester, lecture-only biochemistry course. Concepts covered include the structure and function of biomolecules, membranes, enzyme kinetics, metabolism and bioenergetics, as well as biological information flow. Intended for chemistry, biology, or biotechnology majors.

Notes: Biochemistry majors are required to take CHEM 3501/L and CHEM 3502.

CHEM 3500L:Biochemistry Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3362L **Concurrent:**

CHEM 3500

This laboratory serves as an introduction to biochemistry laboratory techniques and includes biochemical applications of spectroscopy, electrophoresis and chromatography. CHEM 3500L is a laboratory companion to CHEM 3500 and is taken by general chemistry, forensic, professional, and chemistry education track chemistry majors and others needing a one semester biochemistry course with laboratory. This laboratory is not intended for biochemistry majors.

CHEM 3501:Biochemistry I: Structure and Function of Biological Macromolecules

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 2800 and CHEM 3362 **Concurrent:**

CHEM 3501L

Chemistry and biochemistry of macromolecules: proteins, carbohydrates, lipids, and nucleic acids. Introduction to enzymes.

CHEM 3501L:Biochemistry I Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 2800L and (CHEM 3362 and CHEM 3362L) **Concurrent:**

CHEM 3501

Introduction to biochemistry laboratory techniques including centrifugation, chromatography, electrophoresis, spectroscopy, and exploration of bimolecular structure using computer graphics.

CHEM 3502:Biochemistry II: Metabolism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3501

A detailed study of enzyme mechanisms, thermodynamics, and major metabolic pathways, including carbohydrate, lipid, and amino acid metabolism.

CHEM 3512L:Biochemistry II laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3501 and CHEM 3501L **Corequisite:** CHEM 3502

A laboratory course designed to provide students training in essential tools of practical biochemistry, important for success in industry and graduate school. This laboratory combines the foundational concepts and techniques from Biochemistry I Lecture and Laboratory and applies them to a student-led research project.

CHEM 3540L:Advanced Biochemistry Laboratory

0 Class Hours 6 Laboratory Hours 2 Credit Hours

Prerequisite: CHEM 3501L

Laboratory course intended for students who plan to work in an industrial setting or attend graduate school in one of the biosciences. This laboratory combines the techniques from Biochemistry I Laboratory (CHEM 3501L) in a realistic, applied way to solve multi-step problems.

CHEM 3601:Physical Chemistry: Quantum Chemistry and Spectroscopy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202 and CHEM 2800 **Concurrent:**

PHYS 2212

This course provides an introduction to quantum mechanics and its application to selected chemical systems, atomic structure, chemical bonding, atomic, rotational, vibrational, and electronic spectroscopy.

CHEM 3601L:Physical Chemistry Lab

0 Class Hours 6 Laboratory Hours 2 Credit Hours

Prerequisite: MATH 2202, CHEM 2800, and CHEM 2800L **Concurrent:**

CHEM 3000, CHEM 3601, and PHYS 2212

Laboratory methods in physical chemistry.

CHEM 3602:Physical Chemistry: Thermodynamics and Reaction Kinetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202 and CHEM 2800 **Concurrent:**

PHYS 2212

The primary emphasis of this course is on chemical thermodynamics, reaction kinetics and dynamics, and statistical thermodynamics. The course includes physical and chemical properties of real and ideal gases, the laws of thermodynamics and their application to physical and chemical systems, treatment of phase equilibria and chemical equilibria, and extends the application of quantum mechanics to thermodynamics in the development of statistical thermodynamics.

CHEM 3602L:Physical Chemistry Lab II

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3601L **Concurrent:**

CHEM 3602

Continuation of CHEM 3601L

CHEM 3700:Environmental Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3361

This course will cover the environmental chemistry involving the transport, distribution, reactions, and speciation of inorganic, organometallic and organic chemicals occurring in the air, soil and water environments at the local, national and global scale. Environmental transformations and degradation processes, toxicology, pollution and hazardous substances will be discussed.

CHEM 3701:Atmospheric Chemistry

3-0-3 Credit Hours

Prerequisite: CHEM 2800

Atmospheric chemistry is the study of physical and chemical processes in the atmospheric layer. This course is aimed to improve our understanding of atmosphere layers, atmospheric transport, biogeochemical cycles of gaseous compounds, aerosol, acid rain, air pollutions, ozone depletion, greenhouse gases and global warming, chemical kinetics in mesosphere and thermosphere. Atmospheric chemistry is an elective for Environmental Science or Chemistry major students.

CHEM 3710L:Environmental Chemistry Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3361L

This laboratory course is designed to teach sampling, environmental analysis, data handling, systems modeling, specialized instrumental techniques, and field techniques related to atmospheric, geologic, and freshwater environmental chemistry. Additionally, team research projects will be designed to address a specific question related to the topics mentioned above.

CHEM 3800:Forensic Analytical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 2800 and CHEM 3361

This course covers fundamental topics of forensic analytical chemistry including statistics and data quality, sample preparation, drugs (pharmacology and toxicology), arson and the chemistry of combustion, and trace chemical evidence. Throughout the course, emphasis is placed on modern chemical instrumentation as applied to forensic casework.

CHEM 3800L:Forensic Analytical Chemistry Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 2800L and CHEM 3362L **Concurrent:**
CHEM 3800

Students will use modern chemical instrumentation to analyze simulated crime scene samples. Activities related to drug identification, arson debris analysis, and trace chemical analysis will be performed. Laboratory experiments will be designed to introduce students to the types of samples and analytical methodology encountered in a working crime lab.

CHEM 4000:Service Learning in Chemistry

1-3 Credit Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

CHEM 4100:Directed Applied Research

1-3 Credit Hours

Prerequisite: Junior level status; consent of the instructor and chair.

Applied research project directed by a faculty member.

CHEM 4110:Advanced Topics in Inorganic Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3100, CHEM 3602

Survey of modern inorganic chemistry and current theories concerning atomic structure, bonding, coordination chemistry, spectroscopy including a discussion of symmetry and group theory as they apply to the characterization of inorganic compounds, ligand field theory and other topics.

CHEM 4120L:Research Methods Laboratory

0 Class Hours 6 Laboratory Hours 2 Credit Hours

Prerequisite: CHEM 2800 and CHEM 3362

This course will teach students advanced laboratory skills through work on a designed research project. Students will learn how to search the scientific literature, and will write a journal style report summarizing their research project.

CHEM 4300:Instrumental Analytical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 2800 and CHEM 3050 or CHEM 3601

Introduction to chemometrics. Theoretical principles and uses of modern instrumental methods covering: spectroscopy, electroanalysis, and chromatographic separations.

CHEM 4300L:Instrumental Analytical Chemistry Laboratory

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 2800L **Concurrent:**

CHEM 4300

Laboratory experiments include: calibration techniques for analyzing single-component and multicomponent systems, application of spectroscopy (UV-VIS, AAS), electroanalysis (different forms of voltammetry), chromatographic separations (LC, GC) in quantitative and qualitative analysis.

CHEM 4310:Advanced Topics in Analytical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3601 or CHEM 3050

This course will discuss the advanced theories and methods in analytical chemistry emphasizing newer analytical methods in practice in modern laboratories.

CHEM 4310L:Advanced Analytical Chemistry Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 2800 and CHEM 2800L

Students will use modern chemical instrumentation to solve complex problems in analytical chemistry. Instrumentation will include FTIR, GC-FID, GC-MS, HPLC, CE, UV-Vis, LIBS and other techniques depending on faculty expertise.

CHEM 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of instructor, major area committee and department chair prior to registration. Up to five hours may be applied to the major area. Special topics of an advanced nature that are not in the regular course offerings.

CHEM 4420:Identification of Organic Compounds

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3362

Advanced study of common spectrometric techniques for identifying organic compounds. Emphasis on interpretation of data obtained from Infrared Spectroscopy (IR), Mass Spectrometry and Nuclear Magnetic Resonance (NMR), including two-dimensional NMR.

CHEM 4430:Advanced Topics in Organic Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3362

Advanced topics in organic chemistry as may fit the needs and interest of the students and faculty. Such topics might include stereochemistry, physical organic chemistry, heterocycles.

CHEM 4430L:Advanced Topics in Organic Chemistry Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CHEM 3362L **Corequisite:** CHEM 4430

Laboratory experiments designed to teach students the process of design, planning, and implementation of organic synthesis and the characterization of compounds using classic analytic methods and modern spectroscopic techniques.

CHEM 4440:Polymer Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3362

Topics in modern polymer chemistry including synthesis, kinetics, characterization, and uses.

CHEM 4500K:Methods in Nucleic Acid and Protein Biochemistry

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (CHEM 3501 and CHEM 3501L), and (BIOL 3300 and BIOL 3300L)

This course covers the chemical aspects of biochemical techniques routinely performed in the study of DNA, RNA, and protein. This course will build upon and complement the information on proteins and enzymes covered in biochemistry courses and the basic understanding of DNA, RNA, replication, transcription, and translation that students learn in biochemistry, genetics and other biology courses. The laboratory component of this course provides an opportunity for multi-week projects that combine methods learned in previous courses with new methods, and as such it serves as a capstone experience in biochemical methodology.

CHEM 4510:Advanced Topics in Biochemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3501 or CHEM 3500

Topics relating to the chemistry of metabolic processes in living organisms.

CHEM 4620:Advanced Topics in Physical Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 3602

Advanced topics in physical chemistry with emphasis in such areas as quantum mechanics, statistical mechanics, kinetics, and molecular spectroscopy.

Chemistry Education

CHED 3421:Classroom Interactions

2 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: EDSM 1102 and CHEM 3362 and Admission to the Teacher Education Program.

Corequisite: SCED 3010, ITEC 3300, INED 3305, INED 4435

This course examines teachers, students, content, and interactions that lead students to develop conceptual understandings of chemistry. Science teacher candidates design and implement instructional activities informed by their understanding of science learning, then assess student learning. This course includes a 29 hour field experience as introduction to the adolescent learner, the equity imperative and science education reform. This course is restricted to participants in the UTeach program.

CHED 4422:Project-based Instruction

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SCED 2421, Preservice Certification and Admission to Year-long Clinical Experience.

Corequisite: INED 3305 and INED 4435

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based chemistry lessons appropriate to secondary learners. Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice, using videos, journals and discussions. This course is restricted to participants in the UTeach program. This course includes a 45-hour high school teaching experience.

CHED 4423:Pedagogical Content Knowledge for Chemistry

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CHED 4422, INED 3306, and INED 4436

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based chemistry lessons appropriate to secondary learners. Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice, using videos, journals and discussions. This course is restricted to participants in the UTeach program.

Chinese

CHIN 1001:Introduction to Chinese Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This introduction to Chinese language and culture Part I stresses progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Chinese culture.

Notes: Not open to native speakers of Chinese.

CHIN 1002:Introduction to Chinese Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Chinese or CHIN 1001 or the equivalent.

This introduction to Chinese language and culture Part II stresses continued progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Chinese culture.

Notes: Not open to native speakers of Chinese.

CHIN 2001:Intermediate Chinese Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Chinese or CHIN 1002 or the equivalent.

Students continue to develop proficiency in listening, speaking, reading and writing in Chinese and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of Chinese.

CHIN 2002:Intermediate Chinese Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Chinese or CHIN 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities.

Notes: Not open to native speakers of Chinese.

CHIN 2003:Accelerated Intermediate Chinese Language and Culture

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: Two years of high school Chinese or CHIN 1002

This accelerated intermediate level course in Chinese language and culture covers in one semester the materials presented in CHIN 2001 and CHIN 2002. The course stresses continued, progressive acquisition of effective communication skills in both the written and spoken language and an

understanding of the practices and products of Chinese culture.

Notes: Not open to native speakers of Chinese.

CHIN 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 2002 or CHIN 2003 or the equivalent

This course is a study of selected readings of signs, news, and literary and cultural works to increase vocabulary, enhance grammar skills, and develop reading skills. It is designed to give students extensive experience in reading Chinese.

CHIN 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 2002 or CHIN 2003 or the equivalent

This course stresses expansion of effective listening comprehension and speaking skills through culturally and linguistically appropriate activities.

CHIN 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 2002 or CHIN 2003 or the equivalent

This course is a general review of grammar and composition and other writing activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

CHIN 3304:Readings in Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3200

This course introduces students to selected readings in Chinese culture, through which they expand their vocabulary and learn new grammar. Students also learn about cultural issues within the Chinese context and develop their competence in critical analysis of the issues from a global perspective. Readings are in Chinese and discussions are in Chinese and English.

CHIN 3305:Readings in Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3200

This course continues to introduce students to selected readings in Chinese culture, through which they expand their vocabulary and learn new grammar. Students also learn more about cultural issues within the Chinese context and develop their competence in critical analysis from a global perspective. Readings are in Chinese and discussions are in Chinese and English.

CHIN 3390:Upper-division Study Abroad in Chinese

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or Senior status and permission of the department chair.

This course fulfills the study abroad elective for the minor in Chinese Studies. The content of the course may vary depending on available course offerings in the foreign institution. The chair of the Department of Foreign Languages must preapprove the use of this course as partial fulfillment of the requirements for the minor in Chinese Studies and/or for the degree in Modern Language & Culture.

CHIN 3398:Internship

1-6 Credit Hours

Prerequisite: CHIN 3302 or permission of the instructor.

This course is a supervised, credit-earning work experience of one semester requiring the use of Chinese in the work place. Prior approval by the program coordinator and internship supervisor is required. No more than three semester hours may be applied toward the major.

Notes: Prior approval by the program coordinator and internship supervisor is required. No more than three semester hours may be applied toward the major.

CHIN 4400:Directed Study

1-3 Credit Hours

Prerequisite: CHIN 2002 or CHIN 2003 or permission of instructor

This course covers special topics and seminars external to course offerings that allow a student to work individually with an instructor. It requires prior approval by the instructor and department chair.

CHIN 4402:Contemporary Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3304 or CHIN 3305 or the equivalent.

This course is an examination of the historical, social and political contexts of the contemporary Chinese experience through the analysis of different cultural representations such as film, media, plastic arts, music and literature. Readings are in Chinese and discussions are in Chinese and English.

CHIN 4404:Commercial Chinese

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 2002 or CHIN 2003 or permission of instructor

This course is an in-depth study of business practices and the language of business that focuses on verbal and written communication as well as economic, social and political factors that are important to conducting business in the Chinese-speaking world. Readings and discussions are in Chinese and English.

CHIN 4434:Topics in Language, Literature, and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3304 or CHIN 3305 or the equivalent.

This course explores a period, movement or genre in literature, a topic in culture, or language-related issues. Topics are chosen for their significance and impact on Chinese culture and society. Readings are in Chinese and discussions are in Chinese and English.

CHIN 4456:Advanced Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3303 or permission of the instructor.

This course is an advanced study of grammar from a linguistic perspective. It provides an overview of phonetics, phonology, morphology, and syntax. The course exposes students to dialectical variations of the Chinese language and stresses development of oral proficiency. The course is taught in Chinese and English.

CHIN 4490:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3302 or permission of the instructor.

This course covers special topics relevant to the study of Chinese-speaking societies.

CHIN 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHIN 3304 and CHIN 3305 and senior status

This is a capstone course designed to synthesize and connect the students' prior academic experiences in the major and related fields of study. Students prepare a reflective essay and a research paper to present to the faculty. Papers and presentations are in Chinese.

Civil Engineering

CE 1000:Orientation to Engineering and Surveying Professions

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Introduction to the professional practice and options within the disciplines of civil engineering and construction engineering: engineering ethics, career opportunities, professional licensing, and industry expectations in the professional disciplines, as well as department policies on advisement and curriculum requirements to graduation.

CE 2003:Engineering Problem Solving

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214

This course introduces spreadsheet applications for civil engineering analysis and problem solving,

calculating building loads, and linear and nonlinear regression. The course also covers fundamentals of dynamics relevant to the FE exam and to subsequent courses in structures. Topics include vector methods, force and acceleration, linear and angular momentum, and energy methods.

CE 3201:Structural Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 2003, ENGR 3131, ENGR 3132 and Engineering Standing

This course is the introductory course in identification and analysis of basic structural elements. Topics include the determination of beam deflections, methods for the computational analysis of statically indeterminate trusses, moment distribution, and the analysis of frames.

CE 3202:Design of Concrete Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3201

ACI design procedures for reinforced concrete beams, columns, footings, slabs and other members, Introductory to masonry design.

CE 3398:Internship in Civil Engineering

0 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Dept Chair approval and Engineering Standing

This course allows students to enhance their classroom knowledge through practical application of theories to real-world issues in a real-world work environment. Students explore specific interests within their academic discipline and refine their post-graduation goals.

CE 3501:Materials for Civil & Construction Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3131 and Engineering Standing

A study of different materials used for light and heavy construction projects, such as aggregates, woods, metals, concretes, masonry, and bituminous materials. An overview of materials science will be introduced as well.

CE 3502:Materials for Civil & Construction Engineering Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CE 3501

A study of standard laboratory tests (ASTM and/or AASHTO) on the materials commonly used in Civil and Construction engineering field. The lab will reinforce the principles of CE 3501 through laboratory experiments. Developing experimental data into effective laboratory reports will be emphasized.

CE 3701:Geotechnical Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3131 and ENGR 3343

Introduction to fundamental knowledge of soil/foundation engineering for construction projects such as commercial building, highway, bridge, airport, and water/wastewater treatment plant. Course topics will include composition of soils, subsurface investigation, soil classification systems, groundwater flow, permeability, compaction, stress/strain analysis, shear strength, consolidation/settlement, shallow and deep foundations, earth retaining structures, slope stability, and ground modification methods.

CE 3702:Introduction to Environmental Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1212, CHEM 1212L, ENGR 3343, and Engineering Standing .

The course introduces environmental engineering issues such as: legal aspects, engineering solutions, and basic approaches to abatement system design including water supply, water treatment, water quality management, wastewater treatment, air pollution control, solid and hazardous waste management, and environmental impacts.

CE 3703:Environmental Engineering Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702, CE 3704, and Engineering Standing

This course introduces students to environmental engineering design of unit processes and pollution abatement systems such as: water treatment plant design, wastewater treatment plant design, and sludge management system design.

CE 3704:Introduction to Environmental Engineering Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CE 3702 or concurrent registration

This course applies the basic chemistry and chemical calculations to measure physical, chemical, and bacteriological parameters of water and wastewater. Laboratory methods and interpretation of results with regard to environmental engineering applications such as design and operation of water and wastewater treatment processes, and to the control of the quality of natural waters are also covered.

CE 3708:Geotechnical Engineering Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ENGR 3131 **Concurrent:**

CE 3701

A study of standard laboratory tests (ASTM and/or AASHTO) on soils. The lab will reinforce the principles of Geotechnical Engineering studied in CE 3701, and developing experimental data into effective laboratory reports will be emphasized.

CE 4103:Design of Steel Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3201 and Engineering Standing

Behavior and design of structural members and connections using Load and Resistance Factor Design (LRFD) methods; mechanical properties of structural steel; design of tension members, compression members, beams and beam-columns; typical shear and moment connections, welded and bolted; and steel joist design.

CE 4105:Foundation Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3701, CE 3708, and Engineering Standing

This course deals with design of foundations for buildings and other structures and also for such non-foundation problems as designs of retaining walls, bulkheads, and earth dams; as well as the design of natural slopes and stabilization of soils mechanically and chemically. This course is designed to provide students in civil engineering with methods of analysis and design for various geotechnical systems. Topics to be covered include: subsurface investigations; excavations; shallow foundation; deep foundation; design of sheeting and bracing systems; lateral earth pressures and earth retaining structures, slope stability.

CE 4177:Transportation Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3305 and Engineering Standing

This course provides an introduction to the highway engineering and traffic analysis. Principle topics covered in this course include: introduction to the significance of highway transportation to the social and economic underpinnings of society, road vehicle performance, geometric design of highways, pavement design, traffic flow and queuing theory, highway capacity and level of service analysis, traffic control and analysis at signalized intersections.

CE 4178:Highway Design and Construction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 4177

This course addresses many challenges facing engineers when designing and constructing highways. Areas of study include the design of horizontal and vertical alignments, roadside features, parking facilities, intersection design elements, traffic control devices, traffic signal operations and vehicle detection design, and the socioeconomic impacts of the roadway design.

CE 4179:Transportation Engineering Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

CE 4177

This laboratory exposes students to a variety of traffic studies commonly conducted in the field,

including spot speed study, turning movement counts, vehicle delay study, parking study, saturation flow rate study, queue length study, headway study, traffic compliance study, and verification of Poisson distribution. In addition to the field studies, the students will learn how to conduct traffic analysis and simulation using traffic analysis software (HCS+ and Synchro/SimTraffic).

CE 4343:Solid Waste Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702 and Engineering Standing

This course introduces the concepts of generation, storage, collection, transfer, treatment, and disposal of solid waste. Students also address related engineering and management issues.

CE 4353:Air Pollution Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702 and Engineering Standing

This course focuses on fundamental concepts of air pollution, emission sources, atmospheric dispersion, ambient concentrations, adverse effects, governmental regulations, emission standards, air-quality standards, processes and equipment for controlling emissions, and noise pollution.

CE 4363:Environmental Engineering Chemistry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702 and Engineering Standing

Students learn the chemical principles and applications needed to develop advanced problem-solving techniques involved with many water/wastewater treatment processes, air pollution, ionization, and natural systems.

CE 4371:Environmental Engineering Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CE 3704

Students study the application of basic chemistry and chemical calculations to measure chemical and bacteriological parameters of water, wastewater, and soil. Laboratory methods and interpretation of results with regard to environmental engineering applications such as design and operation of wastewater treatment processes, soil and sediment remediation, and environmental health are also explored.

CE 4373:Environmental Engineering Microbiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702 and Engineering Standing

This course is intended to provide fundamental knowledge about microorganisms in the natural and engineered environment and their role in the cycling of elements, both natural and anthropogenically introduced into the environment. The course focuses on understanding their role in the

biodegradation of contaminant chemicals and the application of processes that take advantage of the microbiological biodegradation processes.

CE 4383:Sustainability for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

This course emphasizes the concept of sustainability as an extension of current practices and standards by addressing new concerns and constraints of engineering projects. It also emphasizes the new holistic approach of sustainability that requires some new ways of thinking and frameworks.

CE 4400:Directed Study in Civil and Environmental Engineering

1-3 Variable credit hours Credit Hours

Prerequisite: Approval of Instructor and Department Chair

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. A Directed Study may include original research projects and/or practicum experiences.

CE 4490:Special Topics in CE/CnE

1-9 Credit Hours

Prerequisite: Junior standing, Engineering Standing and consent of the Department Chair. Special topics offered by the program on a demand basis.

CE 4703:Engineering Hydrology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3343 and Engineering Standing

The course presents the hydrological processes and their relationship to the design of structures for control and management of water resources, rainfall-runoff relationships, and probability and frequency analysis as they relate to surface and groundwater hydrology.

CE 4704:Engineering Hydraulic Analysis and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3343 and Engineering Standing

The course applies principals of fluid mechanics to the design and analysis of hydraulic systems. The course emphasizes open channel flow and addresses topics of interest to the Civil Engineer. Topics include hydraulic grade line calculations, pump design, culvert analysis and design, based flood elevation studies using HEC-RAS, non-uniform flow, gutters and inlets, water distribution, open channel design.

CE 4705:Advanced Soil Mechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3701 and Engineering Standing

The course is offered as a technical elective to junior and senior undergraduate students and represents a transition between the introductory and fundamental nature of the material covered in ENGR 3131 and applied soil materials. The course will cover modified Mohr-Coulomb diagrams, triaxial extension and triaxial compression tests, and drained and undrained failure at principle stress.

CE 4706:Pavement Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3201 and Engineering Standing

A study of the methods used to determine the thickness and composition of layers in both flexible and rigid pavements. Class work will also include various types of pavement, stress-strain behavior of pavement systems, characterization of paving materials, consideration of traffic in pavement design, performance prediction models and failure criteria, theoretically analysis and design of highway pavements with critical evaluation of current design practices. Hands on practice sessions with AASHTO and PCA, the Asphalt Institute methods will be provided.

CE 4707:Design of Wood Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3201 and Engineering Standing

The course introduces the design of wood structure and properties of wood. The course will cover the topics such as determination of horizontal and vertical loads, horizontal and vertical load-resisting systems, design of horizontal diaphragms, and bolted and nailed connections.

CE 4708:Hazardous Waste Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3702 and Engineering Standing

Students examine the definition, characterization, classification, regulation, treatment, and disposal of hazardous waste. Evaluation of unit operations and processes of importance in the treatment and disposal of common organic and inorganic hazardous wastes are also covered.

CE 4709:Advanced Structural Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CE 3201 and Engineering Standing

The course offers computer oriented methods for solving determinate and indeterminate structures including matrix analysis of two-and three-dimensional trusses, continuous beams, and frames. The class emphasizes on the displacement method and stiffness matrix development. Matrix analysis method will be applied to problems in structural engineering and mechanics using the Structural Analysis Program 2000.

CE 4800:Senior Project

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Senior Standing, Engineering Standing and consent of the Department Chair
Capstone design experience for graduating Construction Engineering majors.

Civil Engineering Technology

CET 1001:Orientation to the Civil ET, Environmental ET, and Geospatial Professions

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Introduction to the professional practice and options within the disciplines of civil engineering technology, environmental engineering technology, and geospatial technology (surveying and geographical information systems (GIS)). Topics discussed include career opportunities, professional licensing, and industry expectations in the professional disciplines, as well as SPSU and department policies on advisement and curriculum requirements to graduation.

CET 2110:Problem Solving Methods in CET

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203

Introduction to engineering design processes using mathematics and principles of sciences, as well as engineering analysis as a decision-making tool for evaluating design alternatives. The concepts and tools of critical thinking are applied.

CET 2200:Introduction to Structures

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: PHYS 1111, PHYS 1111L (or concurrent enrollment)

An introduction to architectural structures with emphasis on statics and strength of materials concepts. Subject matter includes force systems, shear and moment diagrams, determination of section properties, and the design of wood beams and columns. (Not for credit for CET students).

CET 3110:Construction Materials and Sustainability

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CHEM 1211, CHEM 1211L) and ((MET 3124 and MET 3124L) or CET 2200) or concurrently enrolled

Introduction to materials science and the engineering properties of a variety of civil engineering materials such as metals, wood, aggregates, Portland cement products and concretes, asphalt products and concretes. The relationship between composition, material properties and manufacturing will be examined. Laboratory will emphasize the analysis of data and the application of standard tests to design and construction specifications.

CET 3110L:Construction Materials Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3110

Laboratory will emphasize the analysis of data and the application of standard tests to design and construction specifications. ASTM tests on aggregates, mortar cubes, fresh concrete, hardened concrete cylinders and beams are performed by student teams. Asphalt binder and asphalt concrete tests are also studied.

CET 3120:Cost Estimating and Scheduling in CET

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3110 **Corequisite:** CET 3120L

Practice and methods of cost estimating, and scheduling in civil engineering projects. Emphasis is placed on reading construction drawings, critical path scheduling, and application of the Means Building Construction Cost data book. Application of "engineering economy" topics is included.

CET 3120L:Plan Reading and Take Offs Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3120

Students will learn to read project blue prints in the civil, structural, or related discipline. Students will practice quantity take offs in cost estimation applications.

CET 3130:Applied Fluid Mechanics and Hydraulics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CET 2200 or MET 2124 **Corequisite:** CET 3130L

A study of basic principles of fluid mechanics and the application of these principles to practical problems. The subject matter will consist of fluid properties, fluid pressure, buoyancy, pipe flow analysis, open channel flow, and pump selection. Pressure pipe systems, flow measurement, and open channel systems are examined.

CET 3130L:Fluids and Hydraulics Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3130

Laboratory will determine properties of fluids, usage of various fluid instruments, and apply fluid mechanics principles on flat and curved surfaces, buoyant objects, closed piping systems, and pumping systems.

CET 3210:Structural Mechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3124, MET 3124L

This course is a detailed introduction to the classical methods of analysis of both statically

determinate and indeterminate structures. Subject matter includes Methods of Consistent Deformations, Unit Load Analysis, Beam Reflection Methods, Truss Deflections and The Design and usage of Influence Lines for Continuous Beams. The methods of moment distribution is emphasized for continuous beams and frame analysis. Rigid frame analysis and sidesway is also included.

CET 3220:Applied Structural Steel Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3210

An in-depth study of techniques used in structural design. Determination of structural loads and the analysis and design of structural steel elements used in buildings and related structures. Current design procedures for steel joists, beams, girders, columns, base plates, and connections are applied. American Institute of Steel Construction Steel Design Manual and the Steel Joist Institute's joist manual specifications are used.

CET 3230:Concrete Infrastructure Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3110, CET 3110L and CET 3210

ACI design procedures for reinforced concrete beams, T-beams, columns, slabs, and other components. Includes also design of square footings, box culverts, and analysis of beams subject to torsion.

CET 3310:Water Treatment and Distribution

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CHEM 1211, CHEM 1211L, and CET 3130, CET 3130L **Corequisite:** CET 3310L

Application of chemistry concepts on water quality and treatment processes. This course also includes the performance of mass balance calculations and study of reactor configurations in the design and operation of water treatment systems; and the design approach for water distribution systems and their basic components.

CET 3310L:Water Treatment and Distribution Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3310

This course covers the most common lab testing physicochemical techniques used in water characterization and assessment of drinking water quality.

CET 3320:Wastewater Collection and Treatment

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: (CET 3310, CET 3310L or concurrent enrollment), CET 2110 **Corequisite:** CET 3220L

Application of hydraulics in the design of wastewater collection systems and ancillary structures. This course also includes hydraulic analysis of equalization tanks, the study of metabolic processes and its

application in wastewater treatment, design of conventional and individual wastewater treatment processes.

CET 3320L:Wastewater Collection and Treatment Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3320

This course covers the most common lab testing physicochemical techniques used in wastewater characterization and assessment of wastewater treatment systems.

CET 3410:Soil Properties and Site Exploration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1211, CHEM 1211L, CET 3130, CET 3130L and (MET 3124, MET 3124L or CET 2200) **Corequisite:** CET 3410L

This course provides an introduction to geotechnical engineering and foundation design. Students will study engineering properties of soil, stress distribution in soil, settlement and consolidation, seepage, shear strength and slope stability, shallow foundations, pile foundations, and retaining walls.

CET 3410L:Soil Properties Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3410

Students will classify soils and conduct standard lab experiments such as index property tests, proctor compaction, permeability, direct shear, unconfined compression, consolidation and triaxial tests.

CET 3420:Geosynthetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 2110 and CET 3410

This course provides a comprehensive introduction to analysis and design of geosynthetics in geotechnical engineering applications. Since early 1970's geosynthetics materials, proven to be economically attractive, have been developed and used for reinforcement, separation, drainage, filtration, and containment purposes. The topics covered in this course are: physical & chemical properties and stress-strain behavior of geosynthetics, and design of earth structures with geotextiles, geogrids, and geomembranes.

CET 3430L:Site Exploration and Field Testing Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CET 3410L

Students will study site exploration procedures and will utilize destructive and non-destructive field testing methods to determine physical and mechanical properties of soils.

CET 3510:Traffic Analysis and Road Design

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: SURV 2221, CET 2110

An overview of transportation engineering as it applies to land, air, and sea systems is presented. Course emphasizes the design factors required in planning and constructing roads and highways including traffic analysis and capacity; intersection design and signalization; location, geometrics and drainage; and materials and pavements. The lab focuses on the preparation of highway design plans, as well as data measurement techniques unique to transportation analysis.

CET 3510L:Traffic Analysis and Road Design Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 3510

This course emphasizes sound data collection and analysis techniques. Industry accepted techniques for several traffic engineering topics are presented. Studies are organized to facilitate preparation of formal transportation engineering reports. Each study follows conventional formats to aid the student in quality data collection and appropriate analysis procedures.

CET 4110:Ethics of Engineering

1 Class Hours 0 Laboratory Hours 1 Credit Hours

A review of the theoretical and practical aspects of ethical problems in engineering, along with their suggested solutions. Specific examples, situations and limitations of ethics and ethical relationships are discussed in detail.

CET 4120:Senior Design and Engineering Documentation

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Senior Standing, consent of the Program head.

This course is designed to be the culmination of the undergraduate civil engineering technology education. Under the guidance of the professor, students will form design teams, choose a proposed or ongoing project in the metropolitan area of Atlanta and conduct design or redesign. Working as independent teams with guidance from the lead professor the projects will be completed and the results presented for review to a panel of faculty and students. Each phase of design will include appropriate engineering documentation. All final designs will include engineering drawings and a construction cost estimate.

CET 4130:Special Inspections

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CET 3220, CET 3230, CET 3410, CET 3410L

Students will learn the specialized practice of inspecting concrete and steel buildings, bridges, and foundations.

CET 4210:Computer Methods in Structures

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3210

Review of matrix algebra, structural analysis by matrix methods (Flexibility and Displacement), Slope-Deflection theory, true stiffness determination of spans with varying moments of inertia, multi-story analysis, global stiffness matrix determination as applied to trusses, beams and frames (2D, 3D). Use of commercially available software for analysis and design such as PC-STRAN, GTSTRUDL or STAAD-III emphasized.

CET 4220:LFRD Steel Design

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3220

This is a follow up steel design course with an emphasis on the AISC Load and Resistance Factor Design method. Topics covered are beams (fully plastic, inelastic, elastic), concentric columns, leaner columns, standard connections (bolted and welded), eccentric connections, frame design (braced), modified effective lengths, base plates, and composite beam design (both ASD and LRFD).

CET 4230:Advanced Concrete Design

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3230

This is a continuation of the concrete design procedures covered in CET 3230. Topics include pre-stress member design, post-tensioned member design, retaining wall design, biaxial bending in short and long concrete columns, and two-way slab design.

CET 4240L:Structural Detailing Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: CET 3220, CET 3230

Students will learn the practice structural connection detailing in concrete and steel structures.

CET 4310:Stormwater Management and Erosion Control

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CET 3130, CET 3130L **Corequisite:** CET 4310L

Study of rain distributions, run-off generation, peak flow estimations, hydrograph generation, as well as stormwater conveyance systems. This course also includes the study of structures and best management practices for erosion control to maintain or improve water quality.

CET 4310L:Erosion Control Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Corequisite: CET 4310

Student applies the process for the selection and implementation of best management practices in

erosion control. Students will visit operating stormwater retention facilities to assess the implementation of outlet structures to reduce erosion control.

CET 4320:Unit Operations in Environmental Engineering

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3130 and CET 3320

Study of the unit operations for advanced water and wastewater treatment. Standard laboratory tests with accompanying reports are included. Topics include membrane processes, carbon absorption, air stripping, nutrient removal and sludge treatment.

CET 4330:Solid Waste Management

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3320

Study of management and equipment alternatives in solid waste generation, collection, processing, transferring, transporting and disposal. Consideration of legislation, regulation and management of solid wastes. Activities include field trips and a municipal solid waste landfill design with both oral and written project reports.

CET 4331:Highway Design

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3510, CET 3510L

A continuation of the highway design concepts introduced in Transportation Systems. The changing role of the highway designer and the impacts of GIS on the design process will be examined. Design projects will be used to reinforce material studied.

CET 4340:Air Pollution Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3320

Global and local effects of air pollution, pollution sources, emission controls, meteorology, plume dispersion and rise, particulate, sulfur oxides, nitrogen oxides, air quality and emission standards, and control systems and devices.

CET 4410:Foundation and Retaining Wall Design

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3410

This course presents the basic concepts and fundamental principles that are necessary to understand the standard methods of foundation and earth retaining structure design. Students will be encouraged to use Excel spreadsheets to solve foundation engineering design problems. Course topics will include shallow foundations, mat foundations, pile foundations, conventional retaining walls, braced excavations, mechanical stabilized earth walls and soil nail walls.

CET 4411:FE Exam Preparation - Civil Discipline

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: Senior Standing or consent of the Department Chair.

A review of the civil engineering technology discipline and associated math and sciences in preparation for the Fundamentals of Engineering exam. (Not for credit for CET and Surveying and Mapping majors).

CET 4418:Engineering Geology

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CET 3301, CET 3302

Introductory geology, including rock types, geneses, formations, strength, permeability, and weathering. Investigation of the effects of geologic structure, groundwater, rock properties and mineralogy on design and construction of highways, buildings, tunnels and dams. Problems of construction excavation and de-watering, tunneling methods, evaluation of slope stability and determination of geologic substructure through use of maps and subsurface investigations.

CET 4420:Earth Dam and Levee Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CET 2110 and CET 3410

Earth dam and levee failures are important issues engineers must consider during the design and operation of the structure. Factors such as internal erosion and piping occurrences caused by seepage can lead to failure, resulting in a disaster. Levee analysis becomes an important topic as the infrastructure ages. This course will cover fundamentals of seepage, stress, deformation and overall stability issues in water retaining structures under unsaturated conditions, with fluctuating water tables, and under rapid draw down scenarios. Students will apply the fundamentals to the design of earth dams and levees, and perform risk analyses.

CET 4430:Slope Stability

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CET 2110 and CET 3410

This course focuses on empirical and numerical analytical methods to evaluate and predict landslide failure behavior. Topics will include limit equilibrium slope stability analysis, including Bishop, Janbu, Spenser, Morgenstern-Price methods, and effects of water on slope stability. Students will review case studies and examine initiation, development, and failure of slopes. The course will include the use of finite element, Program SLOPE/W, and Excel spreadsheet applications.

CET 4450:Pavement Design and Maintenance

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3301, CET 3302, CET 3321

A study of the methods used to determine thickness and composition of the components of both flexible and rigid highway pavements. Class work will also include evaluation of paving materials,

design of pavement drainage systems recognition of pavement distress, and the design of repair measures. Standard techniques and computer software such as that of PCA, ACPA, the Asphalt Institute and AASHTO will be utilized in pavement thickness design.

CET 4484:Hydraulic Analysis and Design

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3343

Applies principals of fluid mechanics to the design and analysis of hydraulic systems. The course emphasizes open channel flow and addresses topics of interest to the Civil Engineer. Topics include hydraulic grade line calculations, pump design, culvert analysis and design, base flood elevation studies using HEC-RAS, non-uniform flow, gutters and inlets, water distribution, open channel design.

CET 4510:Transportation Network Design

4 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: CET 3510

A study of the principles and concepts employed in the design of multi-modal transportation networks. Topics include: interaction of multi-modal systems, terminal design, ports and harbors, airport design, and mass transit. Design projects will look at solutions to network problems facing metropolitan Atlanta.

Coles Scholar

CSCH 4010:Applied Leadership in Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Admission to Coles College of Business and admission to the Coles College Scholars program; Non-business Majors: Not available to non-business majors.

This course focuses on leadership as an inward and personal journey of service to others and requires students to engage in an in-depth self-examination of skills, personality, and attitudes to increase self-awareness of leadership competencies. Students will be exposed to leadership cases as well as interact with business community leaders to develop insights and then apply this for their personalized leadership development.

Notes: This course is the first of the five required courses for the Coles Scholars Program.

CSCH 4020:Critical Thinking and Decision Making

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Admission to Coles College of Business, admission to the Coles College Scholars program, and CSCH 4010; Non-business Majors: Not available to non-business majors.

In this course, students are exposed to critical thinking and decision-making theory, methodology and tools. In addition to the theory of knowledge and the "ways of knowing," students will learn to identify key assumptions, evaluate, and develop and test appropriate hypotheses within the context of large

and small problem-solving situations. There is an emphasis on a variety of problems, including those that deal with uncertainty, equivocality, and factors that are measurable and hard to quantify.

CSCH 4030:International Immersion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Admission to Coles College of Business, admission to the Coles College Scholars program, and CSCH 4020; Non-business Majors: Not available to non-business majors.

In this course, students will participate in a multi-week international experience designed to immerse students in an international business environment focused on student learning. Students will utilize leadership and teaming skills learned in CSCH 4010 and problem-solving and decision-making techniques practiced in CSCH 4020 to work together as a team to solve community problems in another country. Through this active participation in the international experience, scholars will gain an understanding of the cultural challenges and opportunities faced by organizations working in a global environment.

CSCH 4040:Consulting & Change Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Admission to Coles College of Business, admission to the Coles College Scholars program, and CSCH 4020; Non-business Majors: Not available to non-business majors.

This course focuses on the processes and actions used by experts to help others improve their business practices. This course will introduce students to both the processes, such as contracting, data gathering, and delivery, as well as the human interactions that underlie effective consulting engagements. The course will draw on a variety of resources and guest speakers in the classroom, as well as applied experiences at local firms where teams of students will engage and work with "clients" on current challenges faced by the firm.

CSCH 4050:Business Intelligence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: Admission to Coles College of Business, admission to the Coles College Scholars program, and CSCH 4040; Non-business Majors: Not available to non-business majors.

This course will walk students through the process of defining problems in business, developing "hypotheses," determining appropriate data for testing, collecting the data, and analyzing it. The course will leverage the concepts from CSCH 4020, as well as statistics background, and modern technology for dealing with datasets, large and small. There will be a focus on dealing with large data sources, planning business strategies for collecting data over time, and how best to share results.

Communication

COM 1100:Human Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an overview of the communication discipline that identifies and explores the various components, situations, and channels involved in the communication process. The main objective is for students to critically assess and improve their personal and professional communication skills with others.

COM 2020:CSI: Communication Sources and Investigations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces the approaches and paradigms used in communication research. Emphasis is placed on locating, reviewing, and evaluating communication research studies found in academic publications; the basic structure and function of a literature review; and communication research ethics. This course provides practical experience using the American Psychological Association formatting style.

COM 2033:Visual Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101 and ENGL 1102

COM 2033 is an introduction to visual communication using perceptual, physiological, psychological, cultural, and semiotic concepts. The course focuses on visual awareness and processing as key elements in effective communication.

COM 2129:Public Speaking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course covers methods and practice in effective oral communication with an emphasis on speech preparation and presentation.

COM 2135:Writing for Public Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101 and ENGL 1102

This course covers application and practice of writing form and style particular to communication industry careers, such as journalism, public relations and human resource areas. Includes weekly writing assignments.

COM 2230:Introduction to Mass Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of the various genres of mass media such as books, magazines, newspapers, radio, television, film, Internet and others. Examines the development, roles, functions, problems and criticisms of specific media from a global context.

COM 2240:Communication Law, Ethics and Diversity

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course provides an overview of law, ethics and diversity in mass media. It examines the basics of freedom of expression and press laws in the United States including freedom of information and access to government records. The course analyzes several approaches to ethics in media, journalism and public relations. It also examines diversity in the mass media, journalism and public relations industries.

COM 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students will explore selected special topics relevant to the mission of the Department of Communication.

COM 3315:Interviewing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Methods and practice in situational interviewing, including selection, sales, journalistic and media interviews. Examines roles and functions of both interviewee and interviewer.

COM 3320:Health Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media. Non-majors: 30+ credit hours and permission from the School of Communication and Media.

This course introduces theoretical and applied aspects of health communication. Current health issues are examined in varied communication contexts, such as interpersonal, group, organizational, and mediated communication. This course analyzes provider-patient communication, intercultural communication and health beliefs, and health messages in the media. A variety of contemporary public health issues are presented. The course also examines the effectiveness of prevention messages using identified communication strategies.

COM 3340:Digital Media Production

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230, must be a declared major in the School of Communication and Media; Non-majors: permission of the School.

This course focuses on the application and impact of digital media technology and how it has changed the production experience in a journalistic context. The course addresses the principles of

shooting, sound characteristics, ergonomics, and basic techniques for field recording (time-code, miking, shot composition, and mixing). Audio and video formats are examined in the context of non-linear post-production.

COM 3350:Editing for Today's Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media. Non-majors: 30+ credit hours and permission from the School of Communication and Media.

This course explores the role of the copy editor in print, broadcast, and online media, with a focus on developing the skills required to be an effective editor in the age of convergence. Through lecture, guest speakers, and in-class and out-of-class assignments, students will gain effective experience in copy editing, and the use of graphics, type, headlines, and layout to produce effective news and feature stories, and public relations materials.

COM 3398:Internship in Communication

1-9 Credit Hours

Prerequisite: Approval of SOCM internship coordinator and eligibility based on the following criteria: junior standing (60 + credit hours) at least a 2.5 GPA, and at least one semester of communication coursework successfully completed at Kennesaw State University. Must be a declared major in the School of Communication & Media.

An internship is a supervised, credit-earning work experience of approximately one semester with a previously approved business firm, private agency, or government agency. Up to nine communication internship hours may be earned for credit. To help students build their resume, a maximum of six credit hours may be earned at one internship site per semester. If a student chooses a second internship, he or she must take an internship with another organization.

COM 3435:Communication Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2135 and COM 2020

This is an advanced course on the nature of academic inquiry in communication, the structure and methodology of professional and academic research, and the resources available for access to published research.

COM 4100:Directed Applied Research

1-3 Credit Hours

Prerequisite: COM 3435 and consent of the instructor and School Director; must be a declared major in the School of Communication & Media.

This course offers students an opportunity to investigate communication-oriented concepts and issues by assisting in faculty-led research or scholarship. Course content and instructional methodologies are identified by the faculty's needs and expectations.

COM 4400:Directed Study

1-3 Credit Hours

Prerequisite: 60+ credit hours; must be a declared major in the School of Communication & Media. This course focuses on specific topics of an advanced nature not in the regular course offerings.

COM 4480:Communication Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3435 and 60+ credit hours; must be a declared Communication, Journalism or Public Relations major.

This course is an in-depth and diversified examination of various theories analyzing and describing the human communication process from different perspectives, including interpersonal, organizational and mass communication.

COM 4490:Special Topics in Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 45+ credit hours; must be a declared major in the School of Communication & Media. This course consists of selected special topics of interest to faculty and students.

COM 4499:Senior Thesis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3435 or COM 4480

The senior thesis is designed to allow students to apply course work to professional issues. The course culminates in the student's preparation and presentation of an undergraduate thesis or creative project.

Notes: This course may serve as the capstone for any of the four concentrations.

GFA 1000:Introduction to On-Set Film Production

6 Class Hours 0 Laboratory Hours 6 Credit Hours

This course is the first of an 18-credit hour certification which provides an introduction to the skills used in on-set film production, including all forms of narrative media which utilize film-industry standard organizational structure, professional equipment, and on-set procedures. Students learn film production organizational structure, job descriptions, and duties in various film craft areas, names, uses and protocols related to various pieces of professional on-set film equipment.

In addition to the use of topical lectures, PowerPoint presentations, videos, and hand-outs, the course includes demonstrations of equipment and set operations as well as hands-on learning experiences. Students also learn, through lecture and exercises, how the various film craft relate to one another on a working set, as well as how and why they all must operate in sync. In addition, students will learn skills related to networking and self-marketing.

GFA 2000:On-Set Internship

1 Class Hours 5 Laboratory Hours 6 Credit Hours

Prerequisite: GFA 1000

Upon successful completion of GFA 1000: Introduction to On-Set Film Production, the GFA Film & Television Production Internship course is a 6 hour option as part of the 18 credit hours needed for the Georgia Film Academy (GFA) Certification Program. The course is designed to provide students with a basic level of on-set film production skills, knowledge and experience with film-industry standards, organizational structure, professional equipment and on-set procedures by giving students hands-on experience on the sets and offices of working film productions and businesses. Students also have an opportunity to network and to build resumes in order to help market themselves with the intention of integrating into the film industry as entry-level workers.

GFA 2020:Electric & Lighting

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: GFA 1000

This course is designed to equip students with the skills and knowledge of electrical distribution and set lighting on a motion picture or episodic television set in order to facilitate their entry and advancement in the film business. Students participate in goal-oriented class projects including power distribution, set protocol and etiquette, properly setting lamps, department lingo, how to light a set to feature film standards, motion picture photography, etc. Upon completion of this course, students have a very solid and broad base of knowledge that includes, but is not limited to, the equipment, techniques, communications, specifications, etc. used in the set lighting department. Students also have a virtually complete understanding of the behavior of light and how to manipulate and control it to feature film standards.

GFA 2030:Grip & Rigging

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: GFA 1000

Grip and Rigging is an introduction and orientation to the practice of rigging and supporting grip equipment, cameras, vehicles and other physical/mechanical devices. In addition to a gaining a thorough knowledge of the equipment used in grip and rigging, students engage in on-set exercises in inventory, maintenance, set-up, trouble-shooting, teamwork, set protocol and safety. The purpose of this course is to prepare students to work on a motion picture production set. As such, student responsibilities are matched to potential responsibilities as a team member on a production set as closely as possible.

GFA 2040:Post Production: Film & Television AVID Editing, Digital Imaging, & Story Craft I

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: GFA 1000

This course is designed to certify students with Avid Media Composer User Certification. This certification is recognized world-wide as the industry standard for assistant editors in feature films and broadcast television. This course equips students with a unique skillset and knowledge of industry

standard digital imaging, editorial process and story forging on both motion picture or episodic nonlinear productions. At the end of the course, the students will be qualified to advance a career in entertainment post production of film and television.

Successful completion of the coursework will award students Avid Media Composer Certified User 100 certification and qualify them to work as an assistant editor in feature films and episodic television. Students will learn "Avid Media Composer" post production processes and best practices, industry standard department lingo, image processing, basic visual effects, and color grading as well as "Digital Imaging Technician (DIT)" workflows. A large emphasis will be placed on the technical aspects of the industry standard editing tools, as well as attitude, professionalism and technique in and out of the edit room. Students will certify as an Avid Media Composer User upon passing Avid's certification exam.

GFA 2050: Intro to Special Makeup Effects

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: GFA 1000

This course is designed to educate students with entry-level skills and knowledge in practical Special Effects (SFX) Make Up for the film and television industry. Students participate in goal-oriented class projects including fabrication, material safety, use casting materials, professional make-up, sculpting, airbrushing, and design. A large emphasis is placed on set etiquette including, but not limited to, attitude, professionalism and technique on and off set.

GFA 2060: Production Accounting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GFA 1000

This course is designed to give students a broad understanding of Production Accounting and related production concepts. Students learn the fundamentals of Production Accounting for the entertainment industry, including how to manage the finances on a production and maintain accurate records. This course explains the relationship between the production accounting department, the producers, the production office and set. Practical experience is created by the use of industry standard software.

JOUR 3310: Concepts in New Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230

This course is an analysis of the content, process and distribution of new media, including Web-based, network-based, and CD-ROM based products. Students examine, evaluate and prepare material for informational, educational, and/or entertainment new media as well as explore the process of computer-assisted communication.

JOUR 3330: News Reporting and Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2135 and COM 2230

This course is an introduction to the ways and means of developing, gathering, writing and editing factual and editorial copy. The course examines news personnel functions, reporting and interviewing techniques, ethical and legal considerations, along with news-writing practice surrounding the above.

JOUR 3360:Photojournalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3340 and must be a declared major in the School of Communication & Media. Non-Majors: Permission of the School required.

This course introduces the fundamentals of how still photography is used to document our world in a public sphere. Students will learn the skills, theory, aesthetics and ethics of newspaper, magazine and online photojournalism. Visual storytelling from a single picture to a multi-image photo essay is explored. A digital portfolio is produced and presented at the end of the term.

Notes: Personal digital camera required.

JOUR 3395:Journalism Study Tour

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230;and 30 credit hours; and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course offers students the opportunity to learn about news gathering, production, and presentation in one of the nation's largest media markets. Students gain first-hand exposure to news professionals, operations, and offices. Students meet for an intensive one-week preparation class to better understand the structure and function of the professional newsroom. They visit outlets for a hands-on look at the news gathering process. Students incur additional travel expenses including the instructor's travel expenses.

JOUR 3700:Fundamentals of Online Journalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330, must be a declared major in the School of Communication & Media. Non-majors: permission of the School required.

In this course, students develop awareness and skills in producing digital news stories. This course explores digital media elements, how audiences discover news, and planning and pitching unique to digital reporting.

JOUR 3820:Video for the Web

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3340, must be a declared major in the School of Communication & Media. Non-majors: permission of the School required.

This course is designed to teach advanced storytelling, shooting, and editing techniques for multimedia journalism in multi-platform environments. The course teaches students to recognize and understand the technical and aesthetic aspects of visual storytelling, and how to build successful visual narratives using a combination of still images, HD video, ambient audio, and natural voices.

The course is constructed to prepare students for the journalism industry and apply the journalistic standards of truth, fairness and accuracy with the tools and techniques of multimedia journalism to tell compelling narratives in a professional environment.

JOUR 3900:Journalism History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication & Media. Non-majors: permission of the School required.

This course focuses on the development of news media in America, emphasizing the historical relationship of the mass media to American social, economic, and cultural patterns. The course will review the origin, growth, shortcomings, and achievements of media, the impact of society on the media, and vice versa.

JOUR 4100:Data Journalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 and must be a declared major in the School of Communication & Media. Non-majors: permission of the School required.

This course offers theoretical and applied approaches to data journalism, including citizen media strategies and tactics needed for the profession. This course focuses on developing the skills and understanding needed to analyze and understand data and then use that data to tell engaging journalistic stories including data scraping and data visualization. Students develop an understanding of many of the methods used to collect data in journalism such as surveys and content analysis.

JOUR 4300:Topics in Journalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 or permission of instruction and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course offers theoretical and applied approaches to journalism and citizen media strategies and tactics needed for the profession. Sample topics may include social media and journalism, sports reporting, international journalism, ethics in journalism, public affairs reporting, and innovation and entrepreneurship in journalism. This course may be taken up to two times for a total of six credit hours as long as the course content differs each semester the course is taken.

JOUR 4410:Investigative Reporting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course teaches students how to move beyond basic news reporting and how to develop strong story ideas, report them thoroughly and write them in compelling and impactful ways. The course examines how to uncover electronic and paper-based documents and use open records laws as part of investigative journalism.

JOUR 4412:Sports Reporting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330, and COM 3340; must be a declared major in the School of Communication & Media. Non-Majors: Permission of the School required.

In this course students prepare for and practice writing short and long form stories about sports contests at the high school, college, and professional levels. Students produce stories in multi-platform formats including video, photography and social media use. This is an advanced reporting course aimed at students who are sports enthusiasts with the goal of becoming professional sports reporters.

JOUR 4420:Advanced Media Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

The course includes methods and practices for writing print and Internet style long-form feature stories. The course focuses on in-depth interviewing skills and query letter writing, as well as understanding multimedia storytelling.

JOUR 4430:Advanced Investigative Reporting I

3 Class Hours 1 Laboratory Hours 4 Credit Hours

Prerequisite: 60+ credit hours; permission of the instructor.

This course is for the Georgia News Lab, which is open to KSU students and students in universities in the Atlanta Regional Consortium for Higher Education. It provides students high-level training in the practice and principles of investigative journalism. Students gain experience in advanced reporting and data journalism techniques and use them to develop projects in conjunction with professional reporters from The Atlanta Journal-Constitution and WSB TV. Students must apply to be accepted.

JOUR 4435:Advanced Investigative Reporting II

3 Class Hours 1 Laboratory Hours 4 Credit Hours

Prerequisite: JOUR 4430

This course is for the Georgia News Lab, which is open to KSU students and students in universities in the Atlanta Regional Consortium for Higher Education. It provides students continued high-level training in the practice and principles of investigative journalism. Students gain additional experience in advanced reporting and data journalism techniques and use them to develop projects in conjunction with professional reporters from The Atlanta Journal-Constitution and WSB TV. Students must apply to be accepted.

JOUR 4445:Advanced Digital Audio Production

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 and COM 3340, 90+ credit hours; must be a declared major in the School of Communication & Media. Non-Majors: Permission of the School required.

This course focuses on producing, writing and storytelling for audio in a journalistic context. The course is designed to teach students how to write scripts and produce radio promotions, commercials and news stories. The course surveys trends in the radio industry including traditional broadcast, digital, and satellite radio as well as podcasting and audio streaming of content.

JOUR 4450:Video News Production

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3330 and COM 3340; must be a declared major in the School of Communication & Media. Non-Majors: Permission of the School required.

This course is designed to teach students electronic field production, including single and multiple camera operations; advanced field camera operations; tape-to-tape editing; editing techniques; single/multiple camera continuity, and scripting in a journalistic context. The students must have a fundamental understanding of production operations before enrollment.

JOUR 4470:Media Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230 and POLS 1101; must be a declared major in the School of Communication & Media. Non-Majors: Permission of the School required.

This course is an in-depth examination of the existing legal structure within which the media operates and the antecedent statutory and case law through which this structure has evolved. The course also addresses ethical concepts and considerations surrounding the media.

JOUR 4488:Multi-Media Visions of Community (Capstone)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JOUR 3700, JOUR 4100, and 90 or more credit hours, and must be a declared major in the School of Communication & Media. Non-majors: permission of the School required.

This course is informed by social networking and civic, citizen and community journalism applications and theories. Student-driven teams produce multi-media journalistic reflections of community life and institutions. The students, ideally working with diverse sets of community members, choose the best methods, tools and platforms for telling their stories and justifying their choices. This is the capstone course showcasing what students have learned as a Journalism and Emerging Media major.

MENT 3100:Fundamentals of Media & Entertainment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230

This course is an introduction to media and entertainment. "Media" topics include not only media institutions, but also the context, history, and economics of media; meaning and ideology; effects on audience behavior; public life; and globalization. "Entertainment" focuses on any communication function used for entertainment purposes, including television, film, music, video games, sports, travel/tourism, museums, and theme parks. This course addresses the history, challenges, trends, and career options in these areas.

MENT 3200:Writing for Entertainment Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; Must be a declared major in the School of Communication and Media.

This course focuses on the art of entertainment content creation via developing and writing content for various screens. Students explore the process of translating and formatting creative concepts for film, television, and new media. Students develop their own original ideas and explore practical applications of the course objectives: Analyze short and long form content for film, television, and new media; critique screenwriting samples; identify story structure; understand the creative process for entertainment writers; utilize software to execute standard formatting for screenplays; recognize industry terminology; and develop content and characters from original concepts.

MENT 3300:Entertainment Podcasting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; Must be a declared major in The School of Communication and Media.

In this course, students learn about the recording hardware, software, and production skills needed to produce effective entertainment podcasts. Students are taught to strategically research and prepare captivating and memorable audio segments; develop audio programming strategy skills; hosting, presenting, and interview strategies; and perfect the editing skills needed to produce high-quality and professional-sounding audio.

MENT 3326:International Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230; Must be a declared major in the School of Communication and Media.

This course explores mass media and culture from an international perspective. Students analyze international communication theories, global communication infrastructure, the global media marketplace, and international communication and the internet. Students also examine specific communication systems, both democratic and authoritarian, and how media is disseminated in a global context. International media products such as film, music, radio, and TV programming, online content, and advertisements are also covered.

MENT 4424:Uses and Effects of Mass Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230; Must be a declared major in the School of Communication and Media.

This course examines research findings and commentary about mass media impact and use in the United States. Through the lens of media theory, students explore what mass media "do" to users and what users "do" with the mass media, and why these effects and uses are thought to occur. This course is useful for students interested in graduate work in mass media, professional media careers, media literacy, or more conscientious use of mass media and awareness of possible effects on themselves or others.

MENT 4425:Gender, Race and Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; Must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course is an examination of mass media portrayals of gender and race, from years past to present. Students analyze media artifacts, identify recurring themes, and explore research about the societal effects of stereotypical media portrayals.

MENT 4430:Media Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; Must be a declared Major in the School of Communication and Media. Non-majors: Permission of the School required.

This course is a comprehensive examination and analysis of the structure, personnel, planning, operations, economics and editorial broadcast, production, advertising, and public relations companies as well as new media.

MENT 4434:Topics in Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; must be a declared major in the School of Communication and Media. Non-majors: permission of the instructor.

This course offers theoretical and applied approaches to media problems and issues. Sample topics may include media literacy, media and society, social and digital media, children and media, celebrity media culture, and courses based on various genres of electronic media. This course may be taken up to two times for a total of six credit hours as long as the course content differs each semester the course is taken.

MENT 4436:Topics in Entertainment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MENT 3100; must be a declared major in the School of Communication and Media.

This course offers theoretical and applied approaches to entertainment topics, challenges, and trends. Sample topics may include entertainment industries and properties, fandom and fan studies, sports as entertainment, arts and leisure entertainment, interactive entertainment, travel and tourism as entertainment, global entertainment, and careers in entertainment. This course may be taken up to two times for a total of six credit hours as long as the course content differs each semester the course is taken.

MENT 4444:Film and Video Structure and Process

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60+ credit hours.

An examination of the television and motion picture industries, covering such factors as development,

pre-production, the production process, post-production and distribution. Emphasis will be placed on the managerial aspects of the process and will include the institutional/instructional video market.

MENT 4454:moMENTum productions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3340; Must be a major in the School of Communication & Media.

This course is the advanced video production course in the MENT major in which students work with campus and external clients on video projects. The instructors secure several clients for the semester and students are briefed by each client before we start our work. Class time is spent on best practices in video production, client relations, proper pre-production strategies, and professional development. Students are required to be available outside of scheduled class time to attend events, on-location shoots, and meetings for our clients. Students can add each project to their individual digital portfolios and professional reels.

MENT 4464:Documentary Filmmaking

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3340; must be a declared major in the School of Communication & Media.

This course is designed to enable students to develop a critical, aesthetic, and ethical approach to visual representation. Through selected documentary viewings, discussions, lectures, and the development and completion of a final project, students learn the necessary processes for producing documentary films. The course culminates with a class production of a short documentary on a topic approved by the instructor. Historical, theoretical, and methodological elements of documentary production are highlighted.

MENT 4485:Media & Entertainment Capstone

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3340 and MENT 4424; must be a MENT major.

This course is the capstone course for Media and Entertainment majors. Students complete a theoretical or applied project during the semester focusing on theoretical/methodological concerns in media and entertainment and their implications for our understanding of media in society. The course culminates in a paper/project that integrates, critiques, extends, and applies knowledge gained from prior media and entertainment courses. Students present their own projects and contribute to substantive discussions of presentations by other students.

MENT 4495:Media and Entertainment Study Tour

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60+ credit hours and MENT 3100; must be a declared MENT major

This course offers students the opportunity to learn about the fields of media and entertainment by visiting some well-known media/entertainment properties and corporations. Students gain firsthand exposure to the wide range of careers in these fields and the skill sets necessary to succeed in the industry. Students meet for an intensive one-week preparation class to better understand the

structure and function of media and entertainment companies; the second week will be on-site at various locations.

ORGC 2030:Careers in Organizational Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

As career preparation, this course examines occupational industries, job roles, and professional skills relevant to the organizational communication course discipline. The learning activities help students articulate goals and synthesize resources, strategies, and activities to chart a realistic career path. Additionally, students self-assess career readiness through seven competencies with a prospective professional association or mentor, and identify post graduate education or training options for career development.

ORGC 3025:Introduction to Organizational & Professional Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media. Non-majors: 30+ credit hours and permission from the School of Communication and Media.

This course is an introduction to organizational & professional communication as a discipline. It covers methods and applications of basic theories, interactive structures, and directions within various organizational environments.

ORGC 3325:Intercultural Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60+ credit hours.

This course is a study of cultural and communication variables that impact the interaction process between peoples. Intercultural communication is examined during the time communication participants share ideas, information, persuasion and emotions.

ORGC 3345:Team Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60+ credit hours; must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course is a study of input, process and output variables in small group discussion. The emphasis is on participation, observation and evaluation of various discussion methods.

ORGC 3376:Interpersonal Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Theory and application of communication concepts involving interpersonal relationships and contexts.

ORGC 3459:Communication and Conflict

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media. Non-majors: 30+ credit hours and permission from the School of Communication and Media.

This course introduces a model of effective conflict management in organizations and other contexts via appropriate communicative strategies. The model proposes that our perspective of dealing with conflict determines our approach to conflict situations. This course provides students with practical knowledge for understanding the benefits of conflict, recognizing its evolution, and applying various strategies for dealing with different people in a variety of contexts.

ORGC 4344: Training and Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ORGC 3025, and 60+ hours; must be a declared major in the School of Communication and Media. Non-majors: Permission of the School of Communication & Media.

This course covers methods and practice in communication training and development for organizations including pre-assessment, writing objectives, training techniques, post-training evaluation, feedback, implementation. The emphasis is on communication processes and outcomes for the trainer and trainee plus communication skill development within training modules.

ORGC 4440: Leadership Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media.

Leadership Communication distinguishes leadership as an influential message-centered process. Based on this perspective, the course examines the variables of message exchange (communicator role, message content and meaning, media, context, and culture) as they impact organizational goal achievement. Eight major communication approaches are used to explain leadership. Special attention is given to understanding communication theory and extending social science research.

ORGC 4455: Organizational Communication Practicum (Capstone)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ORGC 3025 and COM 3435 and 90+ credit hours; must be a declared major in the School of Communication and Media.

This course is the study and application of the organizational communication assessment process used by consultants, trainers and managers. In this capstone course, students conduct a communication audit for a local company and develop a written analysis of the organization's internal communication patterns.

ORGC 4470: Topics in Organizational & Professional Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a declared major in the School of Communication and Media.

This course offers theoretical and applied approaches to the understanding of organizational & professional communication. Sample topics may include global leadership in organizations, nonprofit organizations, professional coaching, and organizational systems. Semester topics will vary. This

course may be taken up to two times for a total of six credit hours as long as the course content differs each semester the course is taken.

PR 3335:Public Relations Principles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2230

An introduction to the history, role, and functions of public relations, including public relations theory, ethics, and industry and career issues.

PR 3355:Public Relations Cases

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and must be a declared major in the School of Communication and Media.

Non-majors: Permission of the School required.

This course examines basic roles and functions of messaging strategy in promoting organizational goals. A case study approach emphasizes theory and methods for effective communication with diverse organizational publics, including the mass media, employees, consumers, financial stakeholders and special interest groups.

PR 3375:Public Relations Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and must be a declared major in the School of Communication and Media.

Non-majors: Permission of the School required.

This course offers practice in writing public relations applications, including news releases, public service announcements, and newsletter articles. Students create a portfolio of writing samples.

PR 3380:PR Strategies and Tactics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and must be a declared major in the School of Communication and Media.

Non-majors: Permission of the School required.

This course examines the application of strategies and tactics used to achieve objectives of a public relations plan. Students learn and practice foundational skills and techniques used in the professional practice of public relations, such as developing effective communication strategies and tactics, media relations, media training, distribution of news and information, special events and the use of photos, graphics and video.

PR 3385:International Public Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and must be a declared major in the School of Communication and Media.

Non-majors: Permission of the School required.

This course introduces students to the global perspective of public relations while emphasizing

corporate and agency public relations. Students learn and apply concepts of planning, research and international or cultural communication in the field of public relations.

PR 3429: Persuasion Methods and Strategies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course provides a study of the theories, methods, applications and implications of persuasion from the days of Aristotle to today's political and commercial arenas. The course explores the practice of changing attitudes and opinions via non-coercive means.

PR 4210: Social Media for Strategic Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 or JOUR 3330 and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

Students learn theory and practice of social media in a professional, strategic communication setting, with an emphasis on the connection between traditional best practices and emerging techniques.

PR 4405: Digital Publication Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 2135 and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course explores digital publication design in the practice of public relations and strategic communication. In addition to principles of design, including the use of photography and graphics, students learn to prepare content and communicate strategic messages through coordination of text, images, and strategic design. Graphic design software and other online tools are used to develop an understanding of visual communication strategies and skills to create publications that raise awareness, affect attitudes, and influence behavior.

PR 4415: Topics in Public Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course offers theoretical and applied approaches to public relations strategies and tactics needed by public relations professionals. Students will learn media relations, social media and public relations, special events coordination, entertainment public relations, and ethics and public relations. Semester topics will vary. This course may be taken up to two times for a total of six credit hours as long as the course content differs each semester the course is taken.

PR 4425:Media Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335, and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course examines the communication and relationship building skills required to be successful in media relations. Students will learn and practice techniques used in the professional practice of public relations, which may include writing on tight deadlines, monitoring trends, developing media opportunities, maintaining relationships with the media, crafting stories, and pitching news.

PR 4460:Crisis Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: COM 3435 plus 60 credit hours and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

PR 4460 provides students insights regarding key concepts, theoretical perspectives, essential skills and abilities, and critical thinking and problem solving skills necessary for effective crisis management within organizations. Topics include issues management, risk management, relationship management, crisis planning and preparation, case studies, and developing crisis management plans.

PR 4465:Public Relations Campaigns (Capstone)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3375 and COM 3435 and 90+ hours and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course is the study and application of the campaign planning process from inception to evaluation. The class functions as an agency, and student groups develop a strategic communication campaign plan for a campus or community organization.

PR 4495:Public Relations Study Tour

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3335 and 60+ credit hours and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

This course offers students the opportunity to learn about integrated communications by visiting some of the nation's most well-known public relations agencies. Students will gain firsthand exposure to the wide range of services provided by the nation's top communication professionals. Students meet for an intensive one-week preparation class to better understand the structure and function of public relations; then the class will visit the agencies for a hands-on look at the communication process. Students will incur additional travel expenses, including the instructor's travel expenses.

PR 4605:Magazine Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PR 3375 or JOUR 3330 or PR 4405 and Approval of Application by Instructor; must be

a declared major in the School of Communication & Media. Non-majors: Permission of the School required.

This course provides students with a working knowledge of the processes involved in the development, preparation and distribution of a major multi-platform publication. Students are involved in all facets of the magazine publication, including research and information gathering, writing, editorial functions, photography, layout and design, and promotion and advertising.

PR 4670:Crisis Leadership Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours, COM 3435, and must be a declared major in the School of Communication and Media. Non-majors: Permission of the School required.

Leaders need communication skills and requisite knowledge to guide organizations through the tumultuous crises of the future. This course addresses numerous content areas, including: factors involved in decision-making under pressure; training and organizational skills in crisis management communication as a core competency; and leading in local and transboundary crises through an integrated approach for organizations with different decision-making structures, different resource commitments to crisis preparation and response, and different communication and cultural strategies.

Computer Engineering

CPE 1000:Computer Engineering Fundamentals

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course provides an introduction to Computer Engineering and to KSU including an introduction to the CPE faculty, an overview of career opportunities, available campus facilities, student organizations, etc. Advising and course planning will be covered. Some of the skills necessary for CPE students will also be introduced.

CPE 3000:Computer Organization and Interfacing

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1190, EE 2501, CSE 1321, CSE 1321L, and Engineering Standing

This course will introduce the students to the fundamental concepts of computer organization including basic register storage, ALUs, and state machines. In addition, we will study how assembly language is used to drive this architecture and explore fundamental hardware operations such as shifting, bit manipulation, and bit testing. Interfacing our architecture to external systems will also be discussed.

CPE 3020:VHDL Design with FPGAs

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2501 and Engineering Standing

This course will explore the design and development of synchronous and asynchronous machines using VHDL. VHDL is an industry standard design language used to create complex embedded digital systems in programmable devices such as FPGAs and CPLDs. This course will explore design

simulation, synthesis, and timing analysis. Physical configurations for FPGAs and CPLDs will also be explored.

CPE 3030:Advanced Embedded Design

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: Engineering Standing **Concurrent:**

CPE 3000 or EE 3501

This course will introduce the students to advanced embedded system design concepts. In addition to learning linux fundamentals, students will explore advanced embedded design concepts such as multithreading and thread synchronization, complex interfacing of digital and analog sensors, and the use of mutexes/semaphores for managing shared resources.

CPE 3040:Interfacing and Communications

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CPE 3030, PHYS 2212, and Engineering Standing

This course is a study of computer peripheral interfacing and communications. Students will study topics in order to be able to interconnect devices and communicate with a variety of peripherals. Serial interfacing protocols will be covered with respect to connecting graphic cards, memory systems, keyboards, and other devices. Data communications principles will be studied including signaling, channel capacity, and bandwidth considerations.

CPE 3398:Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Engineering Standing, CPE 3000, and consent of the instructor

This course is a structured out of the classroom experience that is related to Computer Engineering, in a supervised setting with an industry partner. The goal is for students to enhance their academic classroom skills with practical experiences in a real-world environment. Supervision of the Intern is shared by the working environment supervisor and a faculty advisor.

CPE 4010:Sensors, Actuators and Integration

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (CPE 3000 or EE 3501), and EE 3401, and PHYS 2212, and Engineering Standing

This course provides an introduction to the theory and applications of modern sensors and actuators. The mathematical and physical principles that underlie the operation and uses of various types of sensors and actuators as well as the acquisition, processing, and driving of signals associated with these devices is explored. Sensory- and actuator-based devices interfaced with embedded systems are used to augment the theoretical concepts taught.

CPE 4020:Device Networks

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: CPE 3000 and Engineering Standing

This course provides an introduction to basic networking theory, protocols and technologies and their use in the internetworking of embedded systems. Various networking interface technologies (wireless and wireline) are studied from a conceptual, hardware, and programmatic perspective; the learning experience is augmented via the design and implementation of practical applications using modern Single Board Computers (SBC) and peripheral devices. The concept of the Internet of Things (IoT) is interwoven throughout the course in order to provide the student with a clear grasp of the evolution of such networked devices and how they can be controlled locally, remotely, and within the "cloud."

CPE 4040:Data Collection and Analysis

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CPE 3030, MATH 2335, STAT 2332 and Engineering Standing

This course will provide an introductory look at concept and techniques in the data collection and analysis. After covering the introduction the abstract data types and use of standard data structures, the techniques used to implement numerical algorithms, visualize and process the data, evaluate and validate prediction models and various implementation platforms (computer architectures) for efficient data analysis will be covered. By the end of the course participants should have acquired the skills to plan and execute data collection and analysis campaigns in technical application scenarios.

CPE 4400:Directed Study in Computer Engineering

1-3 Class Hours 0-3 Laboratory Hours 1-4 Credit Hours

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. A Directed Study may include original research projects and/or practical experiences.

CPE 4490:Special Topics in Computer Engineering

1-3 Class Hours 0-3 Laboratory Hours 1-4 Credit Hours

Prerequisite: Varies by Topic

This course covers advanced topics of special interest to faculty and students that are not in the regular course offerings. Offered on a demand basis. This course may be taken more than once.

CPE 4800:Senior Project Proposal

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: CPE 3030, Senior Status, and Engineering Standing

This course involves an in-depth examination of the principles and methods associated with the engineering design process. Students will be grouped into design teams where the engineering design principles and methods are put into practice in the developing of a computer engineering project. The final product for each design team will be a project proposal that will be assessed via design review.

CPE 4850:Senior Project Design

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: CPE 4800 and Engineering Standing

This course will require a design team to complete the computer engineering project they proposed in the senior project proposal course. The steps to completing this project will include building a prototype of the system/device, programming this system/device, and testing this system/device. The design team will also be responsible for drafting the project report, demonstrating that the system/device functions according to specifications, and making an oral presentation of the project.

CPE 4903:Neural Networks and Machine Learning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 1321 and CSE 1321L and MATH 2202 and Engineering Standing

This course introduces the student to the principles and theories associated with neural networks. Several neural networking-related architectures, algorithms, and training techniques associated with real-world applications (e.g. detection & tracking systems, traffic patterns, classification schemes) are discussed. Also, several in-class examples are given and a term project is assigned to aid the student in a practical understanding of the theory covered-Class examples and the project are conducted using OOP and the MATLAB Neural Network Toolbox. Additionally, a survey of various AI hardware implementations will be conducted to further enhance the student's knowledge.

Computer Game Design and Development

CGDD 2012:Fundamentals of Game Design

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course presents an overview of the history of computer games and the theory of gaming. Topics include game genres, content, patterns, playability, suspension of disbelief and immersion, storytelling, and game balance and fairness. Students are required to analyze historic and current games and must also develop an original game.

CGDD 2012L:Fundamentals of Game Design Lab

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Concurrent:

CSE 1322, CSE 1322L and CGDD 2012

This course is the lab component of CGDD-2012. Students will learn to develop computer based video games using a modern game engine and a programming language. Students are required to develop a computer based prototype of an original game.

CGDD 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Special topics selected by the CGDD Department. The course covers special topics at the intermediate level that are not in the regular course offerings.

CGDD 3103:Application Extension and Scripting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CGDD 2012 and a grade of "B" or better in both CSE 1322 and CSE 1322L

This course provides an introduction to the use and extension of applications for content creation and management. Both the theoretical as well as applied aspects of extensible application architectures and plug-ins are covered. Existing and emerging scripting languages will also be discussed extensively, and programming in these scripting languages is covered. Students will explore and utilize current applications and must create extensions to these applications.

CGDD 4003:Digital Media and Interaction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CGDD 3103 or CS 3305 or IT 3883

This course explores how digital media is created and utilized within computer games and simulations. Topics include sound, video, text, images, character modeling, animation, game world and level generation (2D and 3D), and current and emerging interaction techniques. Students are required to work in teams to produce a multimedia term project.

CGDD 4113:3D Modeling and Animation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

This course explores the theory and application of 3D geometric model generation and animation. Topics include mesh and Non-uniform Rational B-Spline (NURB) modeling, textures, subdivision and levels of model detail, rigid/constrained body dynamics, and non-rigid/fluid dynamics. Students will be required to develop and animate a complex model, and a significant project is required

CGDD 4203:Mobile & Casual Game Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CGDD 4003

This course explores the segments of mobile (handheld, PDA and cell-phone) and casual gaming. Aspects of mobile hardware resources such as smaller memory, limited processor capabilities, and smaller displays are discussed; implications of such limitations to design and playability are also presented. Patterns of casual game development and emerging markets for casual games are also explored. A term project exploring mobile and/or casual game development is required.

CGDD 4242:Agent-Based Artificial Intelligence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

This course introduces students to the key concepts of Artificial Intelligence in single-agent, adversarial, and multi-agent systems. This includes topics such as agency, knowledge representation, searching, planning, algorithms, and machine learning in both single and multiple agent scenarios. The students will also apply this knowledge to games, serious games, and

simulations and implement their solutions within serious game and simulation environments such as Unity or Unreal.

CGDD 4303: Educational and Serious Game Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CGDD 4003

This course presents the history, theory, and current best practices of serious gaming and the use of serious games to educate and train. This course focuses on how to engage and entertain while presenting informative interfaces to the user. Topics include motivation, designing engaging learning interfaces, knowledge transfer from the game environment to the real world, assessment of learning, and instructional value. A design/prototype project is required.

CGDD 4313: Designing Online Learning Content and Environments

2 Class Hours 2 Laboratory Hours 3 Credit Hours

This course explores the use of online environments to present educational content for users. Topics include: interaction patterns in online learning environments, providing accessible and intuitive materials, multi-modal presentations of content, and the benefits and limitations of online learning environments. This course requires a critique of existing online environments and the development of a new learning environment, and human-computer interaction issues are an important consideration for this course.

CGDD 4400: Directed Study

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: By Instructor's or Department's permission.

This course enables the study of special topics of an advanced nature that are not in the regular course offerings. Students will complete a research project on a topic in the subject area of computer game design and development or related areas supervised by a faculty member. Credit hours vary from one to three depending on the nature and content of the project student involved. Up to three credits may be applied to the major area.

CGDD 4490: Advanced Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the CGDD Department

This course offers advanced topics selected by the CGDD Department. The course covers special topics at the senior level that are not in the regular course offerings.

CGDD 4603: Production Pipeline and Asset Management

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: CS 4722

This course provides an in-depth exploration of the production of media content. This course covers elements of the production pipeline from concept to content generation to post production and quality

assurance. Topics include asset creation and management, cost-quality tradeoffs, and phases of production. Current and emerging models of the production pipeline such as user-generated content and participation will also be discussed. A significant, team-based project is required.

CGDD 4703:Data Modeling and Simulation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 2332

This course provides an introduction to modeling and simulation. Both the theoretical as well as applied aspects of simulation are covered. Topics include discrete-event simulation, states, transitions, model definition, model quality, input and output analysis, input distributions, experimental design, optimizing models, levels of model detail, cost-quality tradeoffs, verification, and validation. Students will be required to simulate a complex system which necessitates the creation of models. Students will explore and utilize a simulation API.

CGDD 4803:Studio

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: CGDD 4003

This course begins the studio experience and explores the application of game design and development in a structured environment; teams build applications utilizing best practices in software engineering including asset, project, configuration, and requirements management. Students in this Studio course will assume an apprentice position within their teams and learn from more senior students taking the Capstone course. This course involves weekly status, design, and development meetings.

CGDD 4814:Studio 2

1 Class Hours 9 Laboratory Hours 4 Credit Hours

Prerequisite: CGDD 4803

This course continues the studio experience from and further explores the application of game design and development in a structured environment; teams build applications utilizing best practices in software engineering including asset, project, configuration, and requirements management. Students taking this Capstone course will assume a senior position within their teams and provide mentoring to students taking the Studio course. This course involves weekly status, design, and development meetings.

Computer Science

CS 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and department chair.

The course covers special topics at the intermediate level that are not in the regular course offerings.

CS 3305:Data Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MATH 2345 or CSE 2300) and [(CSE 1322 and CSE 1322L each with a "B" or better), or MTRE 2610 with a "B" or better, or CPE 3000 with a "B" or better]

This course introduces data structures, specification, application, and implementation. The case studies will illustrate how data structures are used in computing applications. The emphasis of the course is on linear and some nonlinear data structures and object oriented principles. Topics include: abstract data types, stacks, queues, lists, binary search trees, priority queues, recursion, algorithm efficiency, trees, heaps, hash tables, and analysis of search and sort algorithms and their performance for implementation and manipulation. The programming language to be used in this course is any standard high-level object-oriented programming language such as C++, Java, and Ada.

CS 3410:Introduction to Database Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "B" or higher in both CSE 1322 and CSE 1322L

Introduction to database management systems, database processing, data modeling, database design, development, and implementation. Particular emphasis is placed on the relational approach to database management and processing, which focuses more on the logical nature of a database than its physical characteristics. Relational database programming assignments are drawn from the fields of business. Includes implementation of current DBMS tools and SQL. Ethical and security topics related to databases will be introduced.

CS 3502:Operating Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and CS 3503

The course covers the basic concepts, design and implementation of operating systems. Topics include an overview of basic computing hardware components, operating system structures, process management, memory management, file systems, input/output systems, protection and security. The Windows and/or UNIX/Linux operating systems will be reviewed as example systems.

CS 3503:Computer Organization and Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "B" or higher in both CSE 1322 and CSE 1322L

The course covers computer architecture. Topics include data representation and encoding, binary arithmetic, fixed- and floating-point representation, numbering systems, error-control, instruction set architecture, assembly language and programming, microcode, memory organization and addressing, I/O, interrupts, internal architecture, instruction pipelining, multi-core architectures and CPU/ALU basics. The course also covers computer organization. Topics include Boolean Algebra, logic gates, flip-flops, counters, registers, combinational and sequential circuits, K-maps, circuit design, and various digital components.

CS 3622:Fundamentals of Data Communications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "B" or better in both CSE 1322 and CSE 1322L.

An introduction on the fundamentals and underlying theory of data communication networks, their architecture, principles of operations and performance analyses. Topics include OSI reference model and standards, communication codes, network protocol concepts, synchronous and asynchronous transmission methods, line coding, signaling, effects of bandwidth and noise, digital and analog modulation, interfacing, error/flow/media-access control, switching and routing methods, and network topologies. Other areas studied are Local area networks (LANs), Wide area networks (WANs), Wireless networks, Fiber optic networks, internetworking technologies, and an introduction to the Internet, TCP/IP, cryptography and network security.

CS 3626:Cryptography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2345 or CSE 2300 **Concurrent:**

CS 3305

The course covers both mathematical and practical foundations of cryptography. Topics include basic number theory for cryptography, conversion of text, and implementation using a programming language. The course includes historical cryptography, symmetric cryptography, asymmetric cryptography, hash functions, and well-known attack strategies with countermeasures. Exercises cover programming of simple cryptography in a programming language.

CS 3642:Artificial Intelligence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

The primary objective of this course is to provide a introduction to the basic principles and applications of Artificial Intelligence. It covers the basic areas of artificial intelligence including problem solving, knowledge representation, reasoning, decision making, planning, perception and action, and learning -- and their applications. Students will design and implement key components of intelligent agents of modern complexity and evaluate their performance. Students are expected to develop familiarity with current research problems, research methods, and the research literature in AI.

CS 4265:Big Data Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CSE 3153)

This course covers algorithms and tools that are needed to build MapReduce applications with Hadoop or Spark for processing gigabyte, terabyte, or petabyte-sized datasets on clusters of commodity hardware. A wide range of data algorithms will be discussed in this course.

CS 4267:Machine Learning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3642

This course provides a broad introduction to machine learning and statistical pattern recognition including supervised, unsupervised, and ensemble learning. Topics include K-NN, Naïve Bayes Classifier, parametric and non-parametric methods, support vector machines, kernel machines, neural networks, clustering, dimensionality reduction, and model evaluation. The learning theory including bias/variance tradeoffs and large margins will be introduced. This course will also discuss recent applications of machine learning such as data mining, autonomous navigation, speech recognition, and text and web data processing.

CS 4270:Intelligent Systems in Bioinformatics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CSE 3153)

Biological sciences are undergoing a revolution in how they are practiced. In the last decade, a vast amount of biological data has become available, and computational methods are playing a fundamental role in transforming this data into scientific understanding. Bioinformatics involves developing and applying computational methods for managing and analyzing information about the sequence, structure and function of biological molecules and systems. This course covers a wide range of machine learning, data mining, and computational algorithms to solve various bioinformatics research problems.

CS 4277:Deep Learning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3642 **Concurrent:**

CS 4267

This course covers the foundations of Deep Learning; how to build neural networks and how to design successful deep learning projects. The course topics include convolutional networks, sequence modeling such as recurrent and recursive neural networks (RNNs), long short-term memory (LSTM), Adam, Dropout, BatchNorm, Xavier/He initialization, state-of-the-art technologies, and research topics leveraging Deep Learning. The course includes programming assignments in Python and in TensorFlow.

CS 4305:Software Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3410, CSE 3801, COM 1100

This course provides an overview of the software engineering discipline with emphasis on the development life cycle and UML modeling. It introduces students to the fundamental principles and processes of software engineering, including Unified, Personal, and Team process models. This course highlights the need for an engineering approach to software with understanding of the activities performed at each stage in the development cycle. Topics include software process models, requirements analysis and modeling; design concepts and design modeling; architectural design and

styles; implementation; and testing strategies and techniques. The course presents software development processes at the various degrees of granularity.

CS 4306:Algorithm Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

Algorithm analysis using formal and mathematical techniques and fundamental algorithm design strategies are studied. Topics include asymptotic analyses of complexity bounds using big-O, little-o, omega, and theta notations. The algorithmic strategies (brute-force, greedy, divide-and-conquer, recursive backtracking, dynamic programming, branch-and-bound, heuristics, and reduction) are covered. Also included are standard graph and tree algorithms. Additional topics include standard complexity classes, time-and-space tradeoffs in algorithms, and analyzing both recursive algorithms and non-recursive (iterative) algorithms.

CS 4308:Concepts of Programming Languages

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and CS 3503

This course covers the fundamental concepts on which programming languages are based and the execution models supporting them. Topics include values, variables, bindings, type systems, control structures, exceptions, concurrency, and modularity. Languages representing different paradigms are introduced.

CS 4322:Mobile Software Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CSE 3153) and SWE 3313

This course primarily focuses on mobile sensor application development and security of smartphones and mobile telecommunication systems. The goals of the course is to provide students with real world relevant mobile sensor app development and improve their knowledge and skills on mobile application development and mobile security.

CS 4400:Directed Studies

1-3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and department chair.

This course covers special topics of an advanced nature that are not in the regular course offerings. Up to three hours may be applied to the major area.

CS 4412:Data Mining

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CSE 3153)

This course covers fundamental data mining concepts and techniques for discovering interesting

patterns from data in various applications. Topics include data preprocessing, data warehousing and OLAP, mining frequent patterns, classification, clustering, and trend analysis.

CS 4422:Information Retrieval

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CSE 3153)

This course covers the fundamentals of Internet search engines, including Web crawlers, inverted indices, hyperlink analysis, and relevance ranking. Also covered are advanced topics including information extraction for knowledge base construction, question answering, search marketing and ad targeting, and activity mining for relevance optimization and personalization.

CS 4491:Advanced Topics in Computer Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in any prerequisite course. Prerequisite course(s) vary depending upon the topic.

This course provides the current and relevant topics in an advanced Computer Science area of interest to faculty.

Notes: It may substitute for a CS major elective.

CS 4492:Undergraduate Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Department Permission and (CS 4265 or CS 4267 or CS 4270 or CS 4322 or CS 4412 or CS 4504 or CS 4512 or CS 4514 or CS 4522 or CS 4523 or CS 4524 or CS 4612 or CS 4622 or CS 4632 or CS 4712 or CS 4720 or CS 4722 or CS 4732).

This course promotes undergraduate research in Computer Science. Students develop research ideas and conduct research work to investigate topics aligned with the department's research plan and with the guidance of Computer Science faculty members. Students document their findings in final reports, present their findings, and prepare research papers for publication in appropriate venues.

CS 4493:Research Seminar

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Department Permission and GPA of 3.0 or higher.

Discussion of the latest developments and research areas in Computer Science. Students will share among each other research ideas related to current research areas with interactions with faculty or invited speakers. Students will compile, discuss, present, and report their research ideas.

CS 4504:Parallel and Distributed Computing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and CS 3503 **Concurrent:**

CS 3502

This course introduces students to the fundamental principles common to the design and implementation of programs that run on two or more interconnected computer systems - in parallel or distributed configurations. Topics to be covered include: essentials of operating systems, network protocols for process communication, and synchronization using message queues; understanding of client-server paradigms, web-based group or collaborative communication systems; advanced distributed computing paradigms for parallel computing and handling concurrency issues; and sockets. Programming will focus on using API's for parallel or distributed applications (e.g., MPI and RMI).

CS 4512:Systems Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and CS 3502

This course presents an introduction to systems programming in Linux/Unix. Topics include file I/O, process control and communication, threading, and network-aware systems programs.

CS 4514:Real-Time Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3502

This course covers the software-development life cycle as it applies to real-time systems.

Alternatives: • Including labs that involve the use of a real-time operating system and an associated development environment, or • Modeling with UML, and object oriented simulation. Introduction to formal specification of real-time systems. A course project is required to be completed by the end of the semester.

CS 4522:HPC & Parallel Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 4504

This course will introduce parallel programming techniques for shared memory and distributed memory systems. Topics include threading, OpenMP, and MPI.

CS 4523:Programming Massively Parallel Processors

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and CS 3502

A study of practical parallel algorithms with an emphasis on implementation and performance issues on massively parallel processors. Design and implement high performance computing applications using CUDA running on Graphics Processing Unit (GPU). Topics include heterogeneous parallel programming, hardware threading models, synchronization, parallel blocking algorithms, register allocations, memory performance, and inter-thread communication.

CS 4524:Cloud Computing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 4504

This course discusses the fundamental concepts and techniques of cloud computing. Students will develop an understanding of cloud computing architecture, Infrastructure as a Service (IaaS), Platform-as-a-Service (PaaS), Software as a Service (SaaS), Virtualization, and Application Development on Cloud.

CS 4612:Software Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3502 and CS 3626

The course introduces the fundamental concepts and principles of software security. Topics covered include buffer overflows, defense mechanisms, return oriented programming, reverse engineering, vulnerabilities analysis. Additional topics: mobile security, hardware platform security, embedded system security.

CS 4622:Computer Networks

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3503 and CS 3622

This course covers computer networking and includes software application-related, protocol-related and security-related issues involved in the Internet. Topics include basic network structures, mechanisms for application-to-application communications, protocol layering, Internet addressing, unicast and multicast routing, connection establishment and termination, data flow and congestion control, and error handling. A specific protocol suite will be examined in detail. More advanced topics that build on the student's understanding of network protocols are also introduced, such as network security, mobile networks and the future Internet.

CS 4626:Computer and Network Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3626 and CS 4622

This course is a comprehensive study of the security principles and practices for computer systems and networks. Topics to be covered include basic security concepts, common network attack techniques and impacts, common security policies, Internet protocol vulnerabilities, basic cryptographic tools and secure protocols. Defense techniques such as authentication, access control, encryption, and network intrusion detection will be discussed. This course will also survey new and emerging network security topics, applications and technologies. Exercises for this course will include network programming in some language and using various tools in understanding and analyzing packet traces and network traffic.

CS 4632:Modeling and Simulation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

This course covers the modeling and simulation of the structure and behavior of real-world systems using object-oriented discrete-event simulation techniques. The course emphasizes the modeling and computer programming perspective of simulation; design and implementation of simulation models. The fundamental concepts of object-oriented simulation are introduced. Model implementation will require programming in an object-oriented simulation language such as OOSimL, or in a general purpose programming language (Java or C++). Students will also be exposed to a commercial integrated simulation software tool: Arena.

CS 4712:User Interface Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 1322 and CSE 1322L

A comprehensive study of techniques in design and implementation of user interfaces engineering. Topics include the foundation of human-computer interaction and interface related to software lifecycle, building a graphic user interface engineering, interaction devices and technologies, human-computer dialogue, cognitive models, usability, the design and development process, user interface management systems (UIMS), interface style and techniques, user learning, and diversity in interaction styles. Major research and the building of a working graphic user interface are included.

CS 4720:Internet Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305 and (CS 3410 or CS 3410)

This course introduces current technologies for modeling, designing, implementing, and developing Web applications. Topics include developing for the server and the client, programming frameworks, server administration and integration with databases. Practice will involve platforms and language such as Linux, Python, PHP, Ruby and JavaScript.

CS 4722:Computer Graphics and Multimedia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

The basic principles and practices of interactive computer graphics and multimedia systems are covered in this introductory course. The design and implementation of state-of-the-art computer graphic rendering and visual multimedia systems are the main part of the course. The sub-topics of the course deal with specific input/output hardware devices and their technology, software and hardware standards, programming methods for implementing 3-dimensional graphical applications and interactive multimedia applications, and a study and evaluation of the effectiveness of graphic/multimedia communications. A large component of the class is the building of a large-scale application.

CS 4732:Machine Vision

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3642

This course introduces concepts and techniques in machine vision. Students successfully completing this course will be able to apply a variety of image processing techniques for the design and analysis of efficient algorithms for real-world applications, such as optical character recognition, face detection and recognition, motion estimation, human tracking, and gesture recognition. Topics include basic image enhancement, corner and edge detection, image morphology, linear and non-linear filters, image transformations, camera models, two-dimensional and three-dimensional image geometry, clustering and segmentation (and classification), object recognition and Bag-of-Words models, image texture, shape analysis, and tracking.

CS 4742:Natural Language Processing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3642

This course provides an introduction to the field of natural language processing (NLP). The topics include creating systems that can understand and produce language for applications such as information extraction, machine translation, automatic summarization, question-answering, and interactive dialogue systems. This course covers linguistic (knowledge-based) and statistical approaches to language processing in the areas of syntax (language structures), semantics (language meaning), and pragmatics/discourse (the interpretation of language in context). Students will design and develop programs for analyzing and extracting information from large online corpora.

CS 4850:Computer Science Senior Project

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3502 and SWE 3313

This course provides a capstone experience for CS majors to promote a successful transition into the work place or further academic study. Students will have the opportunity to practice essential project management skills and work with current software tools and technologies. Student teams will develop a project scope, project plan, document functional specifications, develop a design document, implement specified functions, provide weekly progress reports, give project presentations to the class, conduct final project presentation to the instructor and/or project sponsor, and provide a complete final report that includes documentation of all class activities. Each team will designate a team leader who is responsible for coordinating work tasks, team meetings, communications with the instructor and/or project sponsor, and team effort.

Computing and Software Engineering

CSE 1300:Introduction to Computing Principles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introductory computing principles course. Instruction centers on an overview of the

history, scope, and impact of computing as well as critical, algorithmic and computational thinking on problem decomposition and fundamental programming concepts.

CSE 1321:Programming and Problem Solving I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

CSE 1321L

This course provides an introduction to computing with a focus on programming. Instruction centers on an overview of programming, problem-solving, and algorithm development. Particular topics include object-oriented design/programming, primitive data types, arithmetic and logical operators, selection and repetition structures, interactive user input, exception handling, using and designing basic classes, single-dimensional data structures with searching and sorting, and arrays. Programming assignments focus on techniques of good programming style including proper documentation. The student is taught to efficiently design, code, and debug problem solutions and the relationship between correct code and security.

CSE 1321L:Programming and Problem Solving I Laboratory

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Concurrent:

CSE 1321

Lab activities with programming and game design to accompany CSE 1321.

CSE 1322:Programming and Problem Solving II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "B" or higher in CSE 1321 and CSE 1321L **Concurrent:**

CSE 1322L and (MATH 1113 or MATH 1190 or MATH 2202)

The second course in computing provides coverage of more advanced topics of object-oriented programming. This includes the use of static variables and classes, non-linear data structures, inheritance and polymorphism, file input/output, exception handling, recursion, and parameterized types. Elementary data structures (linked lists, stacks, and queues) are introduced to solve application problems. Graphical user interfaces, parallel programming, database programming, and event-driven programming are also introduced. Students will use good programming style including proper documentation.

CSE 1322L:Programming and Problem Solving II Laboratory

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: CSE 1321 and CSE 1321L with a grade of 'B' or better in both. **Concurrent:**

CSE 1322

This course is the required and supervised lab course to accompany CSE 1322.

CSE 2300:Discrete Structures for Computing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ((CSE 1321 and CSE 1321L with a grade of "B" or higher) and (MATH 1113 or MATH 1190))

Coverage of discrete structures is crucial to any program in computing. This course covers propositional and predicate logic, proofs, set theory, relations and functions, algorithms and complexity theory, matrices, graphs and trees, and combinatorics. Throughout, the emphasis will be on applications of these concepts in computing.

CSE 3153:Database Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L) or, for non-CCSE majors, IT 1113.

The topics in this course span from a review of the traditional file processing systems to database management systems. Topics include files systems and file processing logic, planning, and major phases of database development: analysis, design and implementation. Labs use an SQL based database product such as Oracle.

CSE 3203:Overview of Mobile Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 1322 and CSE 1322L

This course explores the use and issues of mobile applications in business including information security issues, connecting to cloud computing services, and mobile interface and programming. A significant design or development project will be created in the course.

CSE 3801:Professional Practices and Ethics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L)

This course covers the historical, social and economic consideration of the discipline. It includes studies of professional conduct, risks, and liabilities, and intellectual property relative to the software engineering and computing professions. Software engineering/computing case studies will be used.

CSE 4983:CSE Computing Internship

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: Senior standing or at least 20 major hours in a CCSE degree program.

This course helps students gain practical experience through real-world projects and professional work. Students will demonstrate an ability to apply computing principles and technologies relevant to their major in a specific real-world project jointly supervised by an industry mentor and a faculty advisor. Students will work in a project team in an enterprise environment demonstrating ethical behavior as a computing professional, an understanding of social, professional and ethical issues related to computing, and an ability to integrate the knowledge acquired in preceding courses. Communication skills and leadership are also evaluated as well as professional computing skills and

knowledge. 150+ hours per semester required at an internship site. The course can not be repeated for credit.

Construction Management

CM 1000:Orientation to Construction and Development

1 Class Hours 2 Laboratory Hours 2 Credit Hours

An introduction to construction industry careers; an overview of construction industry sectors and the industry's impact on the economy; and discussion of the basics of the construction process. Also includes a preview of the construction degree curriculum and an overview of Kennesaw State University policies, procedures, and resources.

CM 2000:Construction Graphics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

A study of the fundamentals of graphic language used by construction professionals, with an emphasis on developing skills in expressing concepts in visual form and in reading architectural and engineering construction documents.

CM 2210:Introduction to Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 1111

The study of basic structural design and analysis. Primary aim of this course is to develop and present structural concepts, introduce structural theory, provide a sound understanding of statics and strength of materials to establish a basis for understanding structural principles as it relates to building components.

CM 3000:Computer Applications in Construction

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CM 2000

An introduction to microcomputers and commercial software. Students learn DOS and Windows manipulations, spreadsheets, word processing, visualization, and presentation software by actively using tutorials and help screens in a structured laboratory setting. Scheduling and estimating software are introduced.

CM 3040:Building Information Modeling I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CM 2000 and CM 3000) or (EDG 2160 and CE 2003)

A course on study of building information modeling for pre-construction applications. The course will enable the students to develop and modify building information models. It includes integration of estimates and schedules with building information models. It also prepares the students to identify

conflicts caused by architectural, structural, mechanical, plumbing, and electrical systems during pre-construction stages.

CM 3110:Residential and Light Construction Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 2000 or EDG 2160 or EDG 1211

A study of materials, techniques, and methods used in residential and light construction. Foundations, wood frame and masonry structural systems, interior and exterior finishes, residential electrical, plumbing, and mechanical systems are included. Also included are residential building code requirements.

CM 3160:Construction Equipment

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Study of the basic principles, practices, and techniques used in the construction industry for selecting and managing construction equipment. Focuses on understanding the time value of money, estimating equipment ownership and operating costs, selecting the proper equipment for specific construction tasks, and estimating equipment production.

CM 3170:Heavy Construction Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

Introduction to the various heavy construction systems such as roads, bridges, sewer/water treatment facilities, and other transportation systems. Topics include: contract analysis, work breakdown, equipment selection, site logistics planning, and project scheduling, cost productivity and performance management, quality control, and risk management.

CM 3180:Mechanical and Electrical Building Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

A study of mechanical and electrical system types, how they are built, and how they affect the construction project. Topics will include air conditioning, heating, plumbing, fire protection, electrical power, electrical lighting, and building control materials and systems. The analysis of current construction drawings will be integrated into each topic.

CM 3190:Sustainable Construction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3180

This course will emphasize the techniques and methods of sustainable construction. Importance of a collaborative team effort from owners, architects, engineers, constructors, and consultants will be integrated into the course. Influences on the cost and schedule due to a sustainable construction project will be analyzed. Topics will include performance certification techniques for sustainable sites,

water efficiency, energy & atmosphere, materials & resources, indoor environmental quality, innovation and design. MEP systems such as ventilation, air conditioning, heating, electrical lighting and building control systems will be covered from a sustainable perspective.

CM 3210:Applied Structures

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CET 2200

A study of structural design analysis and design concepts used in steel and concrete construction. Topics include selection of structural systems and the design of columns, beams, and other structural components.

CM 3230:Heavy Materials & Temporary Structures

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CET 2200

Materials commonly used and the various methods employed with an emphasis on heavy, civil and highway construction. An introduction to the materials, methods, and techniques associated with the design of temporary structures used to support construction operations such as shoring systems, cofferdams, underpinning, slurry walls, and construction dewatering systems. Lab exercises of heavy construction operations with emphasis on productivity enhancement focusing on an integrated approach to planning, modeling, analysis, and design of construction operations, and the use of simulation models and other analytical tools.

CM 3260:Temporary Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 2210

A study of structural design and analysis concepts of temporary structures used in the construction process. Topics include formwork design, scaffolding, and material handling equipment and staging.

CM 3270:Facility Management Strategies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students in this course will learn about the history, practice and profession of Facility Management (FM). Core competencies of the FM profession as detailed by key FM organizations such as IFMA, BIFM, and FMAA will be introduced and analyzed for similarities and differences. Students will also learn about the organizational, ethical, and leadership strategies for the delivery of facility management services.

CM 3280:Building Mechanical and Electrical Codes and Loads

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3180

Study of building mechanical and electrical system loads and applicable codes. Emphasis on how they affect the construction project. Topics will include air conditioning, heating, plumbing, fire

protection, electrical power, electrical lighting and building control systems. The analysis of current construction drawings will be integrated into each topic.

CM 3290:Finance for Facility Managers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students in this course will study the methods and techniques for managing facilities. The core consists of knowledge on process and techniques for strategic planning, estimating and budgeting, life cycle costing, and integrated decision making. Students also learn about the role and responsibilities of facility manager in different business forms and organization models. FM technology and its future is discussed and explored.

CM 3310:Real Estate Development Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101, CM 3110

The course provides an overview of the land development process and provides a foundation for the advanced land development courses. The course focuses on the steps in planning and carrying out the land development project and on the legal issues encountered in the land development profession. The course includes lectures, readings from the texts and closed library reserves, class discussion, problems, exercises and student presentations.

CM 3400:Risk and Quality Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

This course focuses on Exposure analysis, risk management, risk transfer and the costs associated with each. The costs of safety and the lack of it is examined. Workers' compensation insurance cost is integrated into the issues of safety along with the development of a comprehensive risk management plan.

CM 3410:Construction Quantity Surveying

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110 and (CM 3000 or CE 2003)

A study of techniques in the process of construction estimating, with an emphasis on development of the quantity survey. The completion of a specification takeoff and a quantity survey of commercial construction are required.

CM 3411:Construction Estimating Software

1 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: CM 3410

Hands-on computer application of commonly used commercial construction estimating software to construction projects. Instruction in use of the software.

CM 3420:Construction Estimating and Bid Preparation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3410

The continued study of the estimating process emphasizing pricing the general contractor's work, including estimating procedures, development of direct and indirect unit costs, evaluation of subcontractor bids, bidding strategy and bid opening. The completion of an estimate, bid submission, and development of a schedule of values are required. Also included is an introduction to conceptual estimating.

CM 3430:Construction Estimating for Development

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3410

A study of quantity take-off techniques and equipment productivity analysis necessary to development. Small scale development project budgeting will be analyzed from the developer viewpoint. Initial conceptual design budget is based on square foot or assembly pricing for the various construction systems and detailed estimate for the infrastructure costs including site work and utilities. Indirect costs associated with zoning, local codes, and ordinances, as well as soft cost associated with design and engineering will be discussed.

CM 3440:Heavy Estimating

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3410

Advanced estimating techniques and bid preparation for heavy construction projects. Study of the principles used in developing cost estimates for heavy construction projects. Includes interpretation of contract documents, quantity take-off, pricing, and preparation of unit-price bid documents. Introduction and practice with takeoff software for bidding earthwork, paving, utilities, roads, and bridges.

CM 3480:Mechanical and Electrical Systems Estimating

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3280

A continuation of the study of the estimating process emphasizing the specialty contractors portion of the construction project. Topics covered will include the estimating procedure, soft costs, using standard industry references and software, and bidding strategy. A current set of mechanical, plumbing and electrical plans will be estimated.

CM 3500:Building Codes

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

This course will provide an overview of building codes from the perspective of construction managers

and superintendent. Various issues related to building codes, which must be considered by the PM/CM/superintendent, will be discussed and follow the scheduled reading assignments.

CM 3620:Construction Finance and Feasibility

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: ACCT 2101

A study of Financial Management for the Contractor, and Builder/Developer Organization. Topics include: balance sheet analysis using Percentage of Completion Method, Completed Contract Method with Absorption Analyses, and Work in Process Accounting regarding construction progress payments in excess of costs and estimated earnings. Ratio analysis for construction industry and bid and payment/bond performance. Cash flow projection for construction projects. Also included is building construction economics in terms of: Value Engineering, Constructability, building delivery systems and real estate processes for the Builder/Developer and Construction Management organizations. Graduate students will do additional work on construction cost accounting.

CM 3710:Market and Site Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3310

An integrated theory and applications course that provides an exposition of theoretical principles associated with the site planning process, and then involves the students in hands-on application. The inter-relationship between site planning decisions and their potential consequences will be demonstrated through practical exercises.

CM 3800:Construction Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101

Students in this course study the management of company and project finances. They learn the fundamentals of construction accounting and depreciation, prepare financial statements, analyze company's financial health, conduct cost and profit center analysis, prepare and forecast cash flows, and use the technique of time value of money for economic decision making.

CM 3810:Advanced Construction Practice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 2000, CM 3000

This course will prepare students to participate in formal interdisciplinary competitions against other Construction Management/Architecture/ Civil Engineering programs at the 4 year university level. At these competitions students are given a real life project from which they must be able to prepare a preliminary design (Design/Build competitions only), complete estimate, CPM schedule and staffing plan and present these items both in a formal bound written report, as well as a formal oral presentation. The first nine (9) weeks of the course involves intensive instruction in the areas of writing, oral presentation, estimating, scheduling and preliminary design skills as part of the pre-competition preparation process. During the final third of the course students will be expected to

make corrections to their competition submittal package based on feedback from the judges at the competition. Following the competition, additional topics involving the use of Building Information Modeling importance of a collaborative team effort from owner, developers, architects, engineers, constructors, technicians and consultants is the overall focus of this course.

CM 3910:Sustainable Residential Practices

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

This course emphasizes the techniques and methods of sustainable construction for the residential building industry. Students will explore green building rating systems and emerging trends for homes and neighborhood development. Topics will include performance certification techniques for sustainable sites, location & connectivity, water efficiency, energy & atmosphere, materials & resources, indoor environmental quality, innovation, and design.

CM 3912:Workplace Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

A study of the legal constraints encountered in the workplace. Topics included are drugs and drug testing, sexual harassment, labor management cooperation, discrimination, worker compensation, foreign labor regulation, minority/women's business enterprises and professional regulation.

CM 4190:Sustainable Operation & Maintenance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3180

This course will emphasize the techniques and methods used in sustainable operations and maintenance. Importance of a collaborative team effort from owner, occupant, facility management, and maintenance providers will be integrated into the course. Influences on the Environment, society, maintenance and energy needs will be analyzed. Topics will include LEED green building operations and maintenance (Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, Indoor Environmental Quality, and Innovation In Operations). MEP systems such as ventilation, air conditioning, heating, electrical lighting and building control systems will be discussed from a sustainable operations and maintenance perspective.

CM 4230:Heavy Materials & Temporary Structures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3170

Origin, classification, and physical properties of soil as used in engineering and construction applications, together with loads and stresses of soil on, and the more common types of engineering structures. To include an introduction of field sampling and testing for earthwork construction.

CM 4480:Design/Build MEP Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3280

A study of the design-build delivery method applied to construction projects. The study starts with details of the process and how it differs from other project delivery methods. Topics will include building MEP systems (air-conditioning, heating, ventilation, plumbing, electrical power, electrical lighting and building control) and how they are planned and delivered in a design-build project. The analysis of current construction drawings will be integrated into the course.

CM 4510:Construction Scheduling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110, and CM 3410

A study of the management techniques used in controlling the progress of construction projects, including development of a commercial project schedule, as well as simulation of updating and monitoring progress using critical path methodology. Commonly used commercial software packages are introduced.

CM 4511:Construction Scheduling Software

1 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: CM 4510 or approval of the Department Head

Hands-on computer application of commonly used commercial construction scheduling software to construction projects. Instruction in use of the software.

CM 4512:Emerging Trends in Residential Construction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3110

This course emphasizes emerging trends in the residential building industry. Students will explore labor issues, residential construction concerns, and innovative strategies that are present in today's residential homebuilding.

CM 4560:Construction Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 4510, CM 3410

A study of traditional, design-build and construction management delivery methods, the management of field operations and administration of the construction contracts. Contract documents, project organization, supervision, working with owners and design professionals, procurement, management of subcontractors.

CM 4570:Development Process I

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: CM 3310

A study of development as a process with special emphasis on teams built around the developer. The various issues that must be considered by the development team will be discussed. These include conformity of the development process to sound business principles, adherence of development activities to relevant zoning and permitting requirements, and the potential environmental impact of the considered development.

CM 4620:Development Process and Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3800

Students in this course will study financial feasibility and economic desirability of income producing properties. They will learn various financial feasibility analysis techniques and prepare financial pro-forma models for various stages of the development process. The concepts that will be covered are net operating income, time value of money, different forms of financing, and business entities for development process. Acquisition, development, and construction (ADC) loans will be studied and student will prepare their loan amortization schedule.

CM 4639:Construction Safety & Law

4 Class Hours 0 Laboratory Hours 4 Credit Hours

A study of construction safety and law as they pertain to day to day needs of the construction professional. Topics include but are not limited to safety and loss control principles and practices, contract documents and claims, insurance and dispute resolutions.

CM 4660:Advanced Scheduling & Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CM 4510 and CM 3410

This course focuses on Communication, Industry Software, Target Value Design and other best Practices as they pertain to Project Management. Erosion Control Supervisor and Work Zone Traffic Control Certification requirements are examined. Skills generally required for sound project management in a variety of management settings are studied in addition to specific management issues typically associated with construction companies.

CM 4710:Construction Safety

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CM 3110 and CM 3180) OR (PHYS 2212 and PHYS 2212L and CM 3110 and ENGR 3343 and ENGR 3345 and CE 3501 and CE 3502)

A study of construction safety and loss control principles and practices. Topics include project security control, construction accident prevention, safety information sources, weather precautions, emergency planning, and OSHA procedures and regulations.

CM 4760:Construction and Real Estate Property Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200 or ENGR 3324

A study of Construction Contract Documents and Claims. Topics include: analyses of AIA B141, A101, A201, and contractual graphic and technical documents. Other supporting construction contract documents such as bid bonds, payment and performance bonds and construction modifications are studied. The traditional tri-union construction contract formation process is examined in relation to the owner, contractor, material men, and subcontractors. Discussions regarding damages for differing and unforeseen conditions, defective workmanship, and construction delay claims are surveyed in conjunction with AAA construction arbitration rules regarding emerging construction manager contracting processes.

CM 4800:Construction Management Technique

1 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: For General Concentration: CM 3420, CM 4510, CM 4560, CM 4710, CM 3620 For Specialty Concentration: CM 4510, CM 4560, CM 4710, ACCT 2101, CM 3480

Simulations and case studies of events that affect the construction organization and project. Topics and event simulations will include problems typically encountered in the construction industry such as changed conditions, strikes, inconsistencies in documents, and surety assumption of the contract. Presentations by prominent industry representatives pertinent to the event being simulated are included.

CM 4900:Capstone Project

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CM 3800, CM 4560, and CM 4660

This course is the application of course materials covered in the four-year curriculum to an actual construction project. Preparation includes: developing a company organization along with detailed project bid, schedule, construction contracts, cash flow, risk management, and safety plan. Students will present and defend their projects to a panel of industry and faculty members.

Criminal Justice

CRJU 1101:Foundations of Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an overview of the American criminal justice system including law enforcement, the court system, and the correctional system. Emphasis is placed on crime in the U.S., the criminal justice process from arrest through sentencing, and the roles and responsibilities of criminal justice actors. Current topics in the criminal justice system are addressed such as the death penalty, offender treatment, and criminal justice reform among others.

CRJU 2201:Crimes and Defenses

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores substantive criminal offenses and defenses. Topic areas include the types and elements of felony and misdemeanor criminal offenses, defenses to crimes, and lower and appellate case law interpretations of crimes and defenses. Emphasis is placed on federal and state criminal law, including those pertaining to Georgia. The course also evaluates the historical development of crimes and defenses, public policy implications, and the underlying principles that guide the development of crimes and defenses.

CRJU 3300:Criminal Courts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course examines the history, development, structure, operation, and organization of criminal court systems in federal and state courts in the U.S. Topic areas include the roles of major professional and non-professional courtroom participants, stages in the process of adjudication of criminal cases from initial charging through post-conviction review, and an introduction to the constitutional rights of the accused.

CRJU 3301:Research Methods in Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course provides an introduction to the scientific method and the concepts and techniques of social science research. Topic areas include levels of measurement, sampling techniques, research design, survey methodology, and various research techniques. Emphasis is placed on the application of these techniques to the study of specific research questions in criminal justice. This course also examines how to interpret basic statistics and analyze data in a statistical software program.

CRJU 3305:Technology and Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course involves an in-depth study of technology as it relates to crime and the criminal justice system. Topics discussed include technology associated with criminal investigations, law enforcement practices, offender monitoring and supervision, and homeland security. Legal issues and laws pertaining to the use of technology for investigative purposes, privacy issues, and fourth amendment issues are examined. Various technologies used by police, courts, and corrections are also addressed.

CRJU 3310:Police in America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course provides an overview of American law enforcement including the role and purposes of

police in society, the major functions and responsibilities of police, and police subculture. This course also examines legal issues related to policing, police discretion and decision-making, and police behavior including use of force and misconduct. Emphasis is placed on police effectiveness in controlling and preventing crime, police/community relations, and future trends in law enforcement.

CRJU 3311:Police Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course provides an overview of police administration in the U.S. and examines the social, legal, and political factors that influence police management. Topic areas include the goals of the law enforcement system, recruitment and selection of officers, the roles and responsibilities of police administrators, problem-solving and decision-making, and strategic planning of police operations. Emphasis is placed on police accountability to the public and future trends that influence the management of police organizations.

CRJU 3312:State and Federal Law Enforcement Initiatives

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course examines various state and federal law enforcement initiatives. Topic areas include the mission and vision of agencies, as well as their operation and administration, jurisdictional authority, use of technology, and the prediction of future crime issues facing the agencies. Emphasis is placed on career trends in state and federal law enforcement agencies. The hiring and application process and the essential skills applicants ought to possess for employment in these agencies are also discussed.

CRJU 3315:Criminal Procedure

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course examines the requirements and interpretation of constitutional amendments by the U.S. Supreme Court and other federal and state courts during the various stages of a criminal case, including police investigation, search, and arrest; the pretrial phase, including screening of complaints and formal charging of the accused; the trial; the sentencing phase; and appellate review. The constitutional requirements regarding reasonable suspicion, probable cause, custodial interrogation, and the exclusionary rule are featured.

CRJU 3320:Criminal Investigation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course examines the historical, theoretical, and technological aspects of the investigation of crime. Topic areas include crime scene examinations, the collection and preservation of evidence, the basic legal principles and procedures governing the use of evidence in court proceedings, forensic

and behavioral sciences, interviews and interrogations, and the use of technology by law enforcement agencies.

CRJU 3332:Corrections

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course includes a historical and philosophical overview of the American correctional system. Emphasis is placed on the types, goals, and purposes of community-based and institutional corrections, the roles and responsibilities of correctional agencies and actors, and offender characteristics and legal rights. This course also explores correctional policies and their effectiveness to reduce crime and recidivism such as correctional rehabilitation, habitual offender laws, and the death penalty among others.

CRJU 3340:Legal Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course involves students in the process of reasoning objectively and arguing persuasively within a socio-legal framework. Set against a background of formal and informal logic that guides reasoning in general, the course is primarily concerned with the reasoning underlying the construction of legal arguments from judicial, legislative, and scholarly points of view. Theoretical analysis is illustrated by investigating and writing about the law, with an emphasis on topics related to crime.

CRJU 3352:Juvenile Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course focuses on the juvenile justice system including the processing of juvenile offenders from the delinquent act through disposition and discharge. The nature and extent of juvenile delinquency and theories of delinquency are also addressed. Emphasis is placed on the historical purpose of the juvenile court, the effects of the due process revolution on the juvenile justice system, and current research and trends related to juvenile delinquency and justice.

CRJU 3355:Race, Crime, and Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course provides an in-depth examination into racial and ethnic issues related to crime and justice in America. The course explores how racial stratification and inequalities influence crime and victimization and official responses to crime. Topic areas may include disparities in criminal justice enforcement, minority representation in the criminal justice system, and strategies for addressing discrimination across criminal justice policies and practices.

CRJU 3365:Profile of the Serial Offender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course provides an in-depth examination of repeat, violent offenders. Topic areas include offender characteristics, victim traits and characteristics, offender identification and investigative strategies, and criminal justice policies that are focused on serial offending. Emphasis is placed on the examination of theories and research that explain how serial offenders evolve across their life-course from childhood to adulthood.

CRJU 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education (Career Services) and the internship coordinator.

A supervised work experience program for a minimum of two academic semesters at a previously approved site in business, industry, government or private agency related to criminal justice field. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

CRJU 3398:Internship

0 Class Hours 0 Laboratory Hours 3-9 Credit Hours

Prerequisite: Criminal Justice Major; 90 credit hours; and successful completion of 12 upper-level CRJU credits.

This course is a structured off-campus experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly work in the topical area of the internship, under the guidance of both a field supervisor and an academic internship coordinator. In advance of the semester of the internship, students must select an appropriate host agency and attend a mandatory departmental internship orientation session.

CRJU 3400:Ideological/Group Violence and Law Enforcement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course examines law enforcement's response to domestic and international terrorism. Topic areas include the development of modern terrorism and specific terrorist groups, counterterrorism policies and laws, threat analysis, and intelligence processing. Emphasis is placed on proactive measures to prevent terrorism and reactive measures to investigate terrorist acts. This course addresses the roles and responsibilities of local, state, and federal law enforcement agencies in responding to terrorism.

CRJU 4100:Ethics in Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course provides an overview of ethical decision-making and behavior within the context of the criminal justice system. Common ethical dilemmas that occur within law enforcement, the court system, and the correctional system are presented. The relationship between occupational discretion and ethical behavior is explored, and appropriate responses to ethical misconduct are presented. The course also explores various occupational subcultures within the criminal justice system and how these subcultures affect ethical behavior in the workplace.

CRJU 4300:Organized Crime

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course examines the origins, histories, and activities of various major organized crime groups in the United States and throughout the world. Special emphasis is placed on emerging organized criminal enterprises in developing countries and regions. In addition, this course explores the methods used by law enforcement to combat organized crime.

CRJU 4305:Technology and Cyber Crime

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course provides an overview of cyber crime and computer-related crime issues facing the American criminal justice system, particularly law enforcement. Topic areas include prevalence and types of cyber crime, cyber crime victim and offender characteristics, and methods and types of technologies used to engage in cyber crime. Emphasis is placed on the criminal justice system's investigation and response to cyber crime. Future trends of cyber crime and computer-related crime are also discussed.

CRJU 4400:Directed Study in Criminal Justice

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Covers special topics and seminars external to regular course offerings.

Notes: May include original research projects and practicum experiences.

CRJU 4410:Criminal Profiling and Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101

This course centers on the deductive criminal profiling method, the analysis process of forensic evidence, and the development of offender characteristics from behavioral evidence analysis. An overview of the socio-legal aspects involving profiling and analysis of specific profiling issues in different types of serial crime are addressed. Students examine an actual cold homicide and prepare a threshold assessment of the case.

CRJU 4430:Victimology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101 or SOCI 1101

This course provides an overview of criminal victimization in the U.S. This course includes an examination of theories of victimization, research on the scope and impact of specific types of victimization, and efforts to prevent victimization. Additional topics covered include victims' interactions with the criminal justice system, victims' rights, social services for victims, and other efforts to address the needs of crime victims.

CRJU 4490:Special Topics in Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of interest to faculty and students.

CRJU 4499:Senior Seminar in Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101; CRJU 3301; Criminal Justice Major; and 90 credit hours

This is a capstone course designed for senior-level criminal justice majors to apply learning from previous criminal justice courses. This course addresses current issues and trends in criminal justice to integrate knowledge concerning criminal justice policy.

Culinary Sustainability and Hospitality

CSH 2100:Introduction to Culinary Sustainability and Hospitality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an overview of ethical, environmental, and economic sustainable practices in the culinary hospitality industry. Historical development, organization structures, resource conservation, farming, travel and tourism and the role culinary management has in the industry are all discussed. Guest speakers are integrated into the course to provide industry perspective. Students also conduct a carbon footprint analysis identifying the environmental, societal, and economic impact of that footprint, and design strategies to reduce their own footprint.

CSH 2200:World Cuisines and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course studies the evolution of agriculture, food preservation and preparation techniques, food habits and beliefs about food. We delve into geographical, historical, technological and religious factors that have influenced the food-related behaviors of various ethnic groups, exploring how all cultures impact individuals' beliefs about food. Students taste and evaluate regional dishes from a variety of countries, focusing on ingredients, flavors, preparation and techniques characteristic of the cuisines and regions.

CSH 2300:Basic Culinary Skills

1 Class Hours 2 Laboratory Hours 3 Credit Hours

This class serves as an introduction to fundamental cooking skills, methods, theories and techniques. Skills include creating sauces, stocks, soups, knife skills, saute techniques, equipment care, safety and usage, meat fabrication, seafood and vegetable identification and preparation, storing and preservation. Topics also include personal hygiene, safety, basic first aid, station organization, and agricultural sustainability. Students must take and pass the ServSafe sanitation certification exam to pass the course.

CSH 2400:Services Management and Food Production

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to the fundamental principles of food and beverage services management emphasizing how food service professionals create and deliver guest-driven service, enhance value, build guest loyalty, and promote repeat business. Students learn theoretical and practical skills for effective management of food and beverage service operations relating to front and back of the house, leadership, management principles, service skills, service styles (French, Russian, American), and training of personnel.

CSH 2500:Principles of Nutrition for the Professional

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is designed to introduce students to the basic principles of nutrition as needed for general health and healthy menu design. Topics include macro- and micro-nutrients needs for optimum health, U.S. dietary guidelines (and international equivalents), tools to assist with menu planning and nutrient analysis. Students study food labeling, sustainable food practices, and how to apply these practices to meal and menu development, meal planning, and healthy cuisines.

CSH 3100:Food Science I

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: CSH 2500

This course explores engineering, biological, and physical sciences to study the nature of foods, the causes of deterioration, the principles underlying cooking and food processing, and the improvement of food quality for the consuming public. Students acquire a basic theoretical understanding of the chemical and physiochemical principles involved in creating and maintaining desirable food sensory and nutritional properties during food storage, preparation and holding.

CSH 3200:Food and Beverage Purchasing, Logistics and Supply Chain

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101

This course promotes an understanding of the managerial aspects of hospitality purchasing activities in food, beverage, supplies, equipment, services, and furnishings. Emphasis is placed on strategic selection and procurement considerations based on item need, value, and supplier information.

Students learn policies and procedures in the receiving, transportation logistics, storing, controlling, and issuing functions of inventory management all with responsible environmental consideration. Students learn how logistical decisions impact the performance of the operation.

CSH 3300:Professional Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Culinary Sustainability and Hospitality majors: CSH 2100; Non-Culinary Sustainability and Hospitality majors: 60 credit hours and permission of the department.

This course improves students' abilities to describe their accomplishments and sell their ideas in professional networking situations, company meetings, responses to proposals, and interviews. Students learn to create career objectives based upon their research of career options and potential employers, and prepare a developmental roadmap that will lead them to success within their chosen profession.

CSH 3390:International Initiatives in Foods (Study Abroad)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 75+ credit hours and permission of the department chair.

In this study abroad course, students evaluate the origins and migration of foods throughout a region, including food's relationship to religion and various cultural groups, geographical location, social practices and economic well-being. Students examine the impact of the country's sustainability practices and the basis for those practices. Students design, create, implement and evaluate a new sustainable practice in the partnered-locale.

CSH 3398:Internship (Culinary Services Management)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Culinary Sustainability and Hospitality majors: 60 credit hours or permission of the department chair; Non-Culinary Sustainability and Hospitality majors: permission of the department chair.

In this course classroom learning is applied to the professional practice of sustainability in culinary food service and hospitality management. Students gain hands-on experience under direct supervision of managers, chefs and/or staff in establishments approved by the instructor, rotating through multiple departments while learning to engage in a variety of food service operations, sustainable business practices and management responsibilities. 150 hours of internship experience with a host employer is required, in addition to classroom meetings.

CSH 3400:Sustainable Facilities Design and Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Culinary Sustainability and Hospitality majors: CSH 2100; Non-Culinary Sustainability and Hospitality majors: 60 credit hours and permission of the department chair.

This course provides fundamental concepts of sustainability and resource conservation in the operations of culinary and hospitality facilities. Students learn how to work effectively with the engineering and maintenance department(s). The course prepares students to responsibly manage

with emphasis on the areas of energy, water and waste as related to their impact on the environment and facilities management. CPR/First Aid Training certification is a requirement for successful completion of the course.

CSH 3500:Organic Agriculture and Beginning Apiary Studies

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Students are introduced to the competencies and hands-on methods to practice and experience all aspects of sustainable organic farming and beginning apiary studies. This course emphasizes sustainable food production systems, soil conservation, plant nutrition, honey bees and beekeeping, and the environmental study of how using the local bee population can increase crop production.

CSH 3610:Club Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to the world of private club management, including club governance, service excellence, organizational structure, quality management systems for clubs, government regulations, club marketing, food and beverage operations, computer technology for clubs, golf operations in clubs, club fitness operations, and club facilities management. Students learn how to incorporate sustainable practices in club management.

CSH 4000:CSH Work Experience

0 Class Hours 0 Laboratory Hours 0 Credit Hours

Work experience hours that are industry related (culinary or hospitality) need to be verified by submitting documentation from the work establishment that shows the number of hours worked and the job title/description. Students should hold on to these documents until they are ready to be submitted in the semester the student is taking the CSH 4000 class. Working "under the table" is not considered for work experience hours (plus, illegal).

Notes: In order to graduate, students must complete a minimum of 600 industry-related work experience/volunteerism/service hours, with a minimum 200 of those hours being industry-focused volunteer (non-paid) service hours through VKSU. Any exceptions to the VKSU site requirement require written approval in advance by the department chair. All 600 hours may be acquired through volunteerism/service.

Upon completion of the requirements, or in the semester in which the student is certain they will complete the requirements, students will register for CSH 4000 (for work experience) and/or CSH 4010 (for volunteerism).These classes are zero-credit, pass/fail classes used for certification that the required hours were completed, and appear in DegreeWorks. Only register for these courses if the hours will be completed by the end of the semester.

CSH 4010:CSH Volunteerism

0 Class Hours 0 Laboratory Hours 0 Credit Hours

All volunteer hours must be industry-related and non-paid for the student to receive credit. Students

are required to log their hours using the VKSU website (VKSU.kennesaw.edu). VKSU does not allow students to volunteer with places of worship, for-profit organizations or businesses, or activities conducted from a non-approved volunteer site.

Notes: In order to graduate, students must complete a minimum of 600 industry-related work experience/volunteerism/service hours, with a minimum 200 of those hours being industry-focused volunteer (non-paid) service hours through VKSU. Any exceptions to the VKSU site requirement require written approval in advance by the department chair. All 600 hours may be acquired through volunteerism/service.

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CSH 4100:Principles of Beverage Operations Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSH 2400 and permission of the department chair. All students must be 21 years or older to take this class.

This course examines the management of bar and beverage operations within the various hospitality environments, exploring the history of the beverage industry, the cultural relevance of spirits and ales, and the incorporation of various beverages in food service. Students develop serving techniques of wine, spirits, beer, coffee, and tea, and create wine lists, beer lists, and beverage menus. Students must successfully complete the ServSafe Alcohol exam to pass the class.

CSH 4200:Food and Beverage Cost

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101, ACCT 2102, and CSH 3200

This course provides a comprehensive look at the methods, tools and techniques to control food, beverage, and labor costs. Topics include planning, budgeting, standard costing, standardized recipes, menu development, principles of purchasing, staffing and labor costs. Emphasis is placed on controlling costs, allocation of overhead, and fiscal accountability in a sustainable environment.

CSH 4300:Hospitality Law and Liability

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100

This course provides a basic understanding of the law in general, and of the primary laws that apply to the hospitality and food service industries. Students learn to effectively manage the legal issues and liabilities most commonly faced by all hospitality managers, how environmental and natural resource law impacts the industry, and how to avoid and prevent legal liabilities.

CSH 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 3.0 GPA and permission of the department chair.

This course gives students the opportunity for in-depth study of a special topic in culinary sustainability and hospitality not afforded in regular course offerings. Students work under the direction of an individual faculty member.

CSH 4498:Strategic Management in Hospitality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Culinary Sustainability and Hospitality majors: Students must have completed MKTG 3100 and MGT 4001. This course is taken in the last or next-to-last semester in the program; Non-Culinary Sustainability and Hospitality majors: Senior standing and permission of the department chair.

This challenging senior-level capstone course transforms students into strategic business leaders, incorporating disciplines learned throughout the curriculum including marketing, purchasing, situational analysis, quantitative production, environmental awareness, financial and quality management, and strategic formulation and implementation as applied to the hospitality industry. The primary focus is on the successful development, execution, and application of strategic management concepts to a signature event held during the semester.

CSH 4499:Quantity Food Management

1 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Culinary Sustainability and Hospitality majors: Students must have completed CSH 3100 and CSH 4200. This course is taken in the last or next-to-last semester in the program; Non-Culinary Sustainability and Hospitality majors: Senior standing and permission of the department chair.

Students demonstrate established standards, techniques, and practices for large quantity food production by creating a meal service event, including the menu development and design, purchasing, sales and marketing, food service production, cost analysis and service of meals in a dining room environment.

CSH 4610:Plant-Based Cuisine

1 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: CSH 2500

This course examines vegan and vegetarian diets and the nutritional preparation of plant-based cuisines. Students explore why vegan and vegetarian diets are chosen for health, social, religious, or other reasons, with a focus on preparing meals with plant-based ingredients, modifying recipes, and determining preparation methods for highest nutritional value. Students analyze the relationship between diet and disease, and compare that for those eating exclusively plant-based cuisine to the average diet.

CSH 4620:Exploring the World of Wines

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be 21+ years of age by the first day of class to take this class.

Students obtain an in-depth understanding of vineyard and cellar practices that affect style, quality, commercial viability and long-term sustainability of the world's most important wines. Classic, New World, and emerging regions provide the context within which these practices are studied. The class develops students' sensory evaluation skills for the purpose of guiding commercial decisions made by management within a foodservice or hospitality operation.

CSH 4630:Spirits, Beers, and Brews

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be 21+ years of age by the first day of class to take this class.

Students gain an in-depth understanding of key factors that influence price, quality, and long-term sustainability of the world's most important spirits, beers and other alcoholic beverages such as cider and beverages and their regional or generic counterparts. Students will develop their sensory evaluation skills for the purpose of guiding commercial management decisions within the industry.

CSH 4640:Beer Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be 21+ years of age by the first day of class to take this class.

Students develop knowledge of the evolution of brewing and brewer's culture and practices, an understanding of various beer and ale styles, the effects of local culture and society, and the relationship of various technologies on the brewing process. Samples of beers illustrate the sensory properties (flavor, color, foam, and haze), microbiological processes, and chemical components that determine beer quality. Students develop and sharpen sensory skills to discern stylistic nuances as well as technical production issues.

CSH 4650:Fundamentals of Brewing

1 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be 21+ years of age by the first day of class to take this class.

Students explore the art and science of brewing beer, the business of its production, distribution and sale and its place in a cuisine pairing. Students will handcraft several types of beer, going from grain to finished product, exploring the science of fermentation, learning to critique various styles, and gaining an understanding of beer's place in history, culture and cuisine.

CSH 4660:Event Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to the principles of event management including special event research, planning, coordination, marketing, management and post-event evaluation. Through instruction, observation and analysis, students probe, explore and draw conclusions about "what works" in event management.

CSH 4670:Catering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students study the techniques, logistics, and responsibilities involved in the management of on-premise and off-premise catering companies. Students evaluate operations, sales, vendor facilities, challenges and solutions, assessing the needs and requirements in both on-premise and off-premise settings.

CSH 4680:Wedding Planning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students explore the various business and creative aspects of wedding planning and the wedding industry. Students design an event focusing on client retention, package development, contract and vendor interactions, as well as the creative needs associated with this specific event.

CSH 4690:Baking and Pastry

1 Class Hours 2 Laboratory Hours 3 Credit Hours

Students are introduced to fundamental baking and pastry skills, methods, theories and techniques through lecture, demonstration and hands-on production. Students learn the necessity of personal hygiene, safety, basic first aid, and station organization in a production kitchen.

Cybersecurity

CYBR 3100:Principles of Cybersecurity

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L), and admission to the BS-Cybersecurity eMajor, Cybersecurity Minor, or Undergraduate Cybersecurity Certificate.

This course offers a foundation in the various technical and administrative aspects of Cybersecurity and provides the terminology and principles for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, as well as designing a consistent, reasonable cybersecurity system.

CYBR 3123:Hardware and Software Concepts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L) or IT 1113 **Concurrent:**

None

This course examines various hardware and software components and how they work together in a modern computing environment. Topics include an overview of computer organization and architecture, machine language and modern languages.

CYBR 3153:Database Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L), and admission to the Bachelor of Science in Cybersecurity eMajor.

The topics in this course span from a review of the traditional file processing systems to database management systems. Topics include files systems and file processing logic, planning, and major phases of database development: analysis, design and implementation. Labs use an SQL based database product such as Oracle.

CYBR 3200:Network Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3100 and admission to the Bachelor of Science in Cybersecurity eMajor, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

This course provides a complete foundation of the cybersecurity of networked information systems, providing a detailed examination of principles, theory, tools, techniques, and technologies used in network cybersecurity.

CYBR 3210:Client Systems Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L), and admission to the Bachelor of Science in Cybersecurity eMajor, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

This course explores client computer system technology, security, and control of vulnerabilities. It will include relevant computer architectures, and operating systems and will provide the detailed technical coverage necessary to protect computer information system clients by presenting the knowledge of client platform computer hardware components, client network devices and interfaces, as well as the structure and usage of common client operating system software from a cybersecurity perspective.

CYBR 3220:Global IS Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3100 and admission to the Cybersecurity BS eMajor program of study.

In this course, students will be exposed to the basic principles of Global Project Management, effective teamwork and collaboration. It will prepare students to understand key issues in global project management such as project initiation, planning, scheduling, budgeting, risk analysis, quality management and communicating and collaborating across political and cultural boundaries. Tools such as Microsoft Project will be used to develop and track Information Systems projects.

CYBR 3223:Software Acquisition and Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L) or IT 1113, and admission to the Bachelor of Science in Cybersecurity eMajor, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

The course provides a high level introduction to two areas that are crucial to the IT profession,

namely project management and software acquisition. It introduces students to the phases both in the project management and software acquisition and implementation process. Since requirements are crucial to both activities, the course will provide students with an in-depth introduction to requirements engineering. The course will also introduce students to a widely used project management information system.

CYBR 3300:Management of Cybersecurity in a Global Environment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3100, and admission to the Bachelor of Science in Cybersecurity eMajor, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

This course explores managerial aspects of cybersecurity and the administration of strategic planning processes as well as the policies, procedures, and staffing functions necessary to organize and administer the cybersecurity functions of an organization.

CYBR 3305:Technology and Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101, and admission to the Bachelor of Science in Cybersecurity eMajor.

This course involves an in-depth study of technology as it relates to crime and the criminal justice system. Topics discussed include technology associated with criminal investigations, law enforcement practices, offender monitoring and supervision, and homeland security. Legal issues and laws pertaining to the use of technology for investigative purposes, privacy issues, and fourth amendment issues are examined. Various technologies used by police, courts, and corrections are also addressed.

CYBR 3396:Cooperative Study

0 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: CYBR 3100, and admission to the Bachelor of Science in Cybersecurity eMajor, and approval of the coordinator of cooperative education/internships (KSU Career Services).

This is a supervised credit-earning work experience for a minimum of two academic semesters with a previously approved business firm, private agency, or government agency. For sophomore, junior, or senior students who wish to obtain on-the-job experience in conjunction with their academic education.

CYBR 3398:Internship

0 Class Hours 0 Laboratory Hours 1-9 Credit Hours

Prerequisite: CYBR 3100, and admission to the Bachelor of Science in Cybersecurity eMajor, and approval of the coordinator of cooperative education/internships (KSU Career Services).

A supervised credit-earning work experience for one academic semester with a previously approved business firm, private agency, or government agency. The work experience may not be with a current employer. The course will be graded on an S/U basis. The number of credit hours applicable to degree requirements is limited.

CYBR 3423:Operating Systems Concepts & Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3123 or IT 3123, and admission to the Bachelor of Science in Cybersecurity eMajor.

This course is an introduction to basic operating system principles. Topics include memory management, peripheral device management, file system management and process management. Different types of operating systems and their administrations are studied. Projects are carried out with simulations

CYBR 4200:Perimeter Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323), and admission to the Bachelor of Science in Cybersecurity eMajor.

An exploration of cybersecurity techniques, tools, and technologies used to protect an organizations network infrastructure. The course will examine the evaluation, selection, deployment, and administration of firewall, VPN, IDPS, and other applications used to defend organizational networks and information assets from attacks.

CYBR 4220:Server Systems Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 4200 and CYBR 4423), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course offers the detailed technical knowledge and skills necessary to protect computer server information system by presenting the knowledge of server platform computer hardware components, server network devices and interfaces, as well as the structure and usage of common server operating system software from a cybersecurity perspective. Additional learning regarding ongoing maintenance and operational issues of server computing systems will also be included.

CYBR 4305:Technology and Cyber Crime

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CRJU 1101, and admission to the Bachelor of Science in Cybersecurity eMajor.

This course provides an overview of cyber crime and computer-related crime issues facing the American criminal justice system, particularly law enforcement. Topic areas include prevalence and types of cyber crime, cyber crime victim and offender characteristics, and methods and types of technologies used to engage in cyber crime. Emphasis is placed on the criminal justice system's investigation and response to cyber crime. Future trends of cyber crime and computer-related crime are also discussed.

CYBR 4323:Data Communications & Networking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3123 or IT 3123, and admission to the Bachelor of Science in Cybersecurity

eMajor.

Fundamental concepts of computer networking include topics such as properties of signals and media, information encoding, error detection and recovery, LANs, backbones, WANs, network topologies, routing, Internet protocols, and security issues. The focus is on general concepts together with their application to support the business enterprise.

CYBR 4330: Incident Response and Contingency Planning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3300, and admission to the Bachelor of Science in Cybersecurity eMajor, Cybersecurity Minor, or Cybersecurity Undergraduate Certificate.

This course offers coverage of the cybersecurity contingency planning. It includes the detailed aspects of incident response planning, disaster recovery planning, and business continuity planning. Developing and executing plans to deal with incidents in the organization is a critical function in cybersecurity. This course focuses on the planning processes for the execution of response to human and non-human incidents in compliance with these policies.

CYBR 4333: Network Configuration & Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 4323 or IT 4323 and admission to the Bachelor of Science in Cybersecurity eMajor.

This course continues the study of networks. Topics include design and implementation of networks including synchronization, scheduling, exception and deadlock resolution, client server and web based collaborative systems. Network security will also be covered. Cost estimates and speed are examined from a management perspective.

CYBR 4350: Management of Digital Forensics and eDiscovery

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3210 and CYBR 3423), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course explores the key issues in digital forensics: the detection, isolation and response to security breaches and attacks. It provides specific procedures required to respond to a computer crime incident and also provides coverage of the entire digital forensic sequence and the eDiscovery process within organizations.

CYBR 4400: Directed Study

0 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: Approval of Instructor and Department Chair and admission to the Bachelor of Science in Cybersecurity eMajor.

This course enables the study of special topics of an advanced nature that are not in the regular course offerings. Students will complete a research project on a topic in the subject area of cybersecurity supervised by a faculty member. Credit hours vary from one to three depending on the

nature and content of the project student involved. Up to three credits may be applied to the major area.

CYBR 4423:Linux/Unix Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3423 or IT 3423, and admission to the Bachelor of Science in Cybersecurity eMajor.

This course introduces Linux/Unix operating systems. Topics include system administration, file systems and access permissions, regular expression, common tools and utilities, and network service configurations. Lessons will be enhanced using hands-on exercises.

CYBR 4490:Special Topics in Cybersecurity

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: Junior/Senior Standing, and admission to the Cybersecurity BS eMajor. Additional requirements may vary by topic.

Special topics proposed by faculty, approved by the Department Chair. Offered on a demand basis. Can be repeated for credit if not duplicate topic.

CYBR 4700:Cybersecurity Competitions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CYBR 3100, admission to the Cybersecurity BS eMajor, and permission of the team.

This course explores emerging issues in cybersecurity. The content of each offering will vary based on current issues and concerns in the cybersecurity industry.

CYBR 4810:Cyber Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 4220 and CYBR 4200), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course is a semester-long simulation using the virtual systems, software, practices, and procedures necessary for the protection of computer systems and networks. Students learn how to protect networks and systems as deployed in a typical organization. Course topics include policy and practice associated with the protection of communication resources, intrusion detection systems, firewalls, and use of various tools for system and network protection.

CYBR 4833:Wireless Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course explores the theory and practice of securing wireless networks from threats and attacks. Topics include Cryptography, Network Security Protocols, Security and Layered Architecture, Voice-

Oriented Wireless Networks, Data-Oriented Wireless Networks, Security in Traditional Wireless Networks, Security in Wireless LAN, and Security in Wireless Ad Hoc Networks.

CYBR 4843:Ethical Hacking for Effective Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323) and admission to the Bachelor of Science in Cybersecurity eMajor.

This course explores the identification and validation of network and system vulnerabilities by taking an adversarial approach to network, system, and data access. Topics include network attacks and defenses, Operating System and application vulnerabilities, social engineering attacks, and malware. Ethical, legal implications of network attacks are also discussed.

CYBR 4853:Computer Forensics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3210 and CYBR 3423), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course is an exploration of the tools and techniques used to conduct digital investigations. It will include digital evidence collection, recovery, and analysis. Topics are Legal issues relating to digital evidence, recovery of deleted files and discovery of hidden information, reconstruction of user activity from e-mail, temporary Internet files and cached data, assessment of the integrity of system memory and process architecture to reveal malicious code.

CYBR 4883:Infrastructure Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course provides an overview of the infrastructure assessment and penetration testing process and the processes and techniques for improving the defensibility of that infrastructure.

CYBR 4893:Internet of Things: Applications and Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CYBR 3200 and CYBR 4323), and admission to the Bachelor of Science in Cybersecurity eMajor.

This course introduces core knowledge and skills required to develop, design and secure IoT solutions. Students will analyze requirements, develop human-device interaction and learn about broader trends and characteristics in IoT. In addition, students will evaluate the security design of IoT-connected products.

Dance

DANC 1107:Dance in Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Through an examination of the role of arts in society, and an in-depth study of selected dance events, this interactive course provides an understanding of the creative process and develops skills in creativity and critical analysis. Heightened perceptual abilities will be developed through class experiences and field visits to a variety of arts events in dance, music, visual arts, and theater. (Attendance at some events requires paid admission.)

DANC 2000:Dance History I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Explores dance as a reflection of culture and as an art form from the earliest societies to the present. International ballet, modern dance, and American dance will be observed closely as art forms and as commercial entertainment. Throughout the course students will read from books the observations of prominent dance critics, and they will view recordings of acclaimed dance pieces. Cultural influence and the contributions of individual artists will be investigated.

DANC 2100:African Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Students experience a variety of African dance forms, understand their relationship to the native culture, and study the technical aspects of their performance. This course may be taken twice for credit.

DANC 2200:Tap Dance Technique I

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Students develop rhythmic complexity and performance techniques in tap dance. They will develop an understanding and experience of a variety of tap dance styles along with a historical understanding of the development of tap as an American art form. May be taken twice for credit.

DANC 2210:Tap Dance Technique II

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 2200

Students strengthen foundational skills covered in Tap Dance I. They further develop rhythmic complexity, performance quality, and a deeper understanding of various tap styles. This course may be taken twice for credit

DANC 2290:Special Topics in Dance

0 -3 Class Hours 0-3 Laboratory Hours 1 -3 Credit Hours

Prerequisite: Varies by topic

Topics of a special interest to students and faculty.

DANC 2500:Indian Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

This is an introductory course of Indian Classical dance techniques. Students explore the movement styles of Indian Classical dances from historical, cultural, and aesthetic perspectives.

Notes: May be taken twice for credit.

DANC 2713:Dance Production

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Permission of the instructor.

This course introduces students to stagecraft and live theatrical production. Students are charged with production assignments in support of public productions sponsored by the Department of Dance.

Notes: This course may be repeated for a total of two times for credit.

DANC 2714:Dance Performance

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Permission of the instructor.

This course includes individually designated performance assignments in support of public productions sponsored by the Department of Dance. Students rehearse and take class weekly, in addition to show week responsibilities.

Notes: This course may be repeated a total of 4 times for credit.

DANC 2715:Dance for Camera

0 Class Hours 3 Laboratory Hours 2 Credit Hours

The course is designed to introduce digital video technology in dance through the acquisition of technical and creative skills required to choreograph, compose, edit, and disseminate Dance for Camera works.

Notes: The course may only be taken once for credit.

DANC 3000:Musical Theatre Dance: Styles I

0 Class Hours 3 Laboratory Hours 2 Credit Hours

An introduction to major dance styles for musical theater including: fundamental performance skills, exercises in body awareness, and principles of choreography for musical theater pieces. Students address the process of creating a character through movement and develop audition and rehearsal techniques through in-class work and out-of-class assignments. This course includes a survey of the history of dance in musical theater.

DANC 3001:Musical Theater Dance: Styles II

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Dance Major, or DANC 3000

This course offers advanced study of a selected musical theater dance style, including a history of the form and its major choreographers.

DANC 3100:Ballet I: Classical Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Students will explore the principles and art of classical ballet through correct alignment, flexibility, balance and kinesthetic awareness. Fundamental barre exercises, center work, traveling steps and vocabulary are introduced. Students will learn to apply techniques of moving gracefully through space while acquiring an understanding and appreciation of ballet as an art form and its place in contemporary musical theater.

DANC 3110:Ballet II: Classical Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Dance Major, or DANC 3100

Students will acquire complex motor skills, intermediate and advanced classical ballet techniques and knowledge appropriate for successful participation in classical ballet performance. Multiple turns and beats are explored, along with beginning pointe work in some cases, as well as petite allegro and grand allegro combinations.

DANC 3120:Ballet III: Classical Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3110 or permission of the instructor.

This is an intermediate-advanced level ballet technique course for advanced dancers. Students will continue developing complex motor skills with multiple turns and beats, as well as musicality in classical ballet technique. Female dancers will work en pointe and male dancers will work on men's combinations.

Notes: May be taken twice for credit.

DANC 3130:Ballet IV: Classical Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3120 or permission of the instructor.

This is an advanced ballet technique course for pre-professional dancers. Emphasis is placed on complex movement sequences, ensemble awareness, classical repertory, advanced pointe technique and men's combinations.

Notes: May be taken four times for credit.

DANC 3200:Jazz Dance: Styles I

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Students will explore the principles and art of jazz dance through correct alignment, body control, flexibility, weight shift and rhythmic control. Center work, stretching, isolations, extensions, turns, jumps, simple combinations and vocabulary are introduced. Students will learn to apply techniques of defined traveling movements in a range of dynamic and changing rhythms while acquiring an understanding and appreciation of jazz dance as an art form.

DANC 3210:Jazz Dance: Styles II

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Dance Major, or DANC 3200

Students acquire complex motor skills, intermediate and advanced techniques and knowledge appropriate for the successful participation in jazz dance performance. Multiple simultaneous isolations, contracted falls and turning jumps are explored, along with movement combinations of 64 beats and longer.

DANC 3220:Jazz Dance: Styles III

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3210 or permission of the instructor.

This is an intermediate-advanced jazz technique course for the advanced dancers. Emphasis is placed on learning complex and challenging combinations with correct body placement and balance. Students will continue developing their motor skills, jazz dance techniques, musically and artistry.

Notes: May be taken twice for credit.

DANC 3230:Jazz Dance: Style IV

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3220 or permission of the instructor.

This is an advanced jazz technique course for pre-professional dancers. Emphasis is placed on continuing to develop advanced level performance techniques and learning technically, musically and artistically challenging combinations as well as professional repertory.

Notes: May be taken four times for credit.

DANC 3300:Modern Dance I: Contemporary Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Students will explore the principles and art of modern dance through correct alignment, endurance, strength, flexibility, balance and kinesthetic awareness. Fundamental barre exercises, center work, traveling steps and vocabulary are introduced. Students will learn to apply techniques of moving gracefully through space while acquiring an understanding and appreciation of modern dance as an art form.

DANC 3310:Modern Dance II: Contemporary Dance Techniques

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Dance Major, or DANC 3300

Students acquire complex motor skills, intermediate and advanced movement techniques and knowledge appropriate for the successful participation in modern dance performance. Standing falls, extended off-center balances, and turning jumps are explored, along with movement combinations of 64 beats and longer.

DANC 3320:Modern Dance III: Contemporary Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3310 or permission of the instructor.

This is an intermediate-advanced modern technique course for advanced dancers. Students will continue to develop neuromuscular coordination, correct alignment, body placement and balance. Students will also continue to develop proficiency in one or more movement styles and learn intermediate-advanced level repertory.

Notes: May be taken twice for credit.

DANC 3330:Modern Dance IV: Contemporary Dance Technique

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3320 or permission of the instructor.

This is an advanced modern technique course for the pre-professional dancer. Emphasis is placed on developing complex neuromuscular coordination, correct alignment, body placement and balance. Students will be expected to develop proficiency in multiple movement styles and learn advanced repertory.

Notes: May be taken four times for credit.

DANC 3398: Internship

1-3 Credit Hours

Prerequisite: Permission of the department chair.

A supervised, credit-earning work experience of one academic semester with a previously approved professional dance or theater company, dance studio, art agency or government agency serving the arts.

DANC 3500: Pas de Deux/Pointe

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3110 or permission of the instructor.

This course develops a student's partnering skills in dance through increased technical development and the learning of classical repertory. A portion of this course focuses on the development of pointe technique for women and classical variations for men. This course is designed to develop the advanced-intermediate level dance student's ability to transfer classical ballet skills into partnered pas de deux work.

DANC 3550: Choreography I

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Two 3000-level DANC classes or permission of the instructor.

This course introduces dance choreography including improvisational techniques and choreographic devices appropriate for the concert stage.

DANC 3600: Dance Improvisation

0 Class Hours 3 Laboratory Hours 2 Credit Hours

In this course, students will creatively discover and investigate the body's potential to move without preconception. Through a variety of movement stimulation exercises students are encouraged to develop their inner creativity and explore movement invention.

DANC 3700: Body Conditioning and Somatics

0 Class Hours 3 Laboratory Hours 2 Credit Hours

This course offers the study of a variety of physical conditioning methods such as yoga and pilates combined with injury prevention techniques that promote physical efficiency and physical development of the body.

DANC 4010: Dance History II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 2000

A historical study of prevalent twentieth-century dance forms and their development. Socio-cultural influences in dance and the contributions of individual artists is investigated and researched. A

portion of this course studies the history of dance in world cultures and global trends in the development of dance as an art form.

DANC 4100:Dance Kinesiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 2000

A study of the science of the human body, its anatomy and movement physics.

DANC 4200:Analysis and Criticism of Dance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 2000

Students develop analytical and critical skills in dance through an understanding of core dance principles, developing refined observation skills, and the study of dance journalism.

DANC 4300:Dance Pedagogy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 2000 and ENGL 1102

Students study the philosophical and practical principles associated with the teaching of dance as an art form. Through practical application of theoretical learning objectives, students learn to identify and work conceptually from core principles in technique and pedagogy.

DANC 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of an advanced nature, which may include original research projects.

DANC 4490:Special Topics

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Topics of a special interest to students and faculty.

DANC 4500:Choreography II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 3550

This course introduces dance choreography including improvisational techniques and choreographic devices appropriate for the concert stage, musical theater, children's theater or educational theater.

DANC 4800:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 4010 or permission of the department chair.

This course evaluates the students understanding of practical, aesthetic, and critical issues in dance as an art form in contemporary society. Students discuss theoretical principles used by contemporary artists that support the application of contemporary principles in the field of dance.

DANC 4900:Senior Project

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: DANC 4800

Students produce a creative work based on a research project that results in a public performance.

Early Childhood Education

ECE 2205:Organization and Administration of Early Childhood Programs

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 2110

In this course candidates identify high-quality administrative and programming practices for young children's programs, evaluate the effectiveness of early care, learn administration practices through a 15-hour observation experience in a child care center, and develop a resource portfolio useful to early care and education administration. Additionally, candidates demonstrate knowledge of appropriate child behavior guidance strategies by developing a guidance plan.

Notes: A criminal background check is required of candidates prior to the observation.

ECE 2220:Practicum

3 Credit Hours

Prerequisite: Approval of the director of the Center for Education Placements and Partnerships, advisor, and department chair.

A practicum in a classroom during which the student will be actively involved in the teaching-learning process under the guidance of a professional teacher.

ECE 2250:Child Development and Early Learning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course addresses theories of human development from conception to middle childhood (age eleven years) with attention to the social, emotional, physical and cognitive domains. Issues relating to family, diversity, and culture will be addressed as they relate to development and supporting children's learning. Candidates will also explore effective learning environments, health, safety & nutrition for children. Observations in natural settings will be required.

ECE 2540:Health, Wellness and the Young Child

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is designed to provide teacher candidates with opportunities to understand the importance of a healthy and safe environment for young children. Issues include infectious disease control, injury and accident prevention, chronic health care conditions and illnesses, child abuse and neglect, and proper meal planning and nutrition. Upon successful completion of this course, teacher candidates will be awarded certification in Basic First Aid and CPR for infants and young children.

ECE 2590:Families, Communities and Schools: Partners in Education

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course analyzes family, school, and community resources as related to the family life cycle; explores environmental approaches; and explores careers related to children and families. Strategies to improve communication and collaboration are emphasized with a focus on family types, cultures, languages, economic conditions, school systems, community services, political forces, advocacy groups, and other factors that impact young children and their families. Fifteen hours of service learning at an approved site is required.

ECE 3305:Classroom Assessment for Elementary Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECE 3320, ECE 4408, and INED 4482 **Corequisite:** ECE 4409 , ECE 3330

This course examines purposes, principles and uses of assessment in relation to instructional decision making in the elementary classroom.

ECE 3313:Preschool Curriculum and Assessment

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program

In this course candidates design and implement developmentally appropriate, standards-based curriculum and lessons for preschool children; practice developmentally appropriate screening and assessment with preschool children; and describe effective techniques for working with young children with challenging behaviors. A 30-hour field experience required. Candidates must pass the College of Education's mandatory background check and a mandatory state Bright from the Start criminal background check prior to beginning field experience.

Notes: Verification of professional liability insurance is required prior to placement in the field experience.

ECE 3320:Teaching Reading and Writing in the Elementary Grades PK-2

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program, and EDUC 2130 **Concurrent:** ECE 3313 **Corequisite:** ECE 4408, and INED 4482

This course emphasizes research-based strategies for instruction in reading, writing, listening, and speaking in preschool to second grade. Culturally responsive and developmentally appropriate literature contextualizes classroom experiences in lesson planning, literacy instruction, and

assessment. This course includes multiple theoretical perspectives and approaches to literacy instruction as well as media and extensive field experience to enhance learning.

ECE 3330:Teaching Reading and Writing in the Elementary Grades 3-5

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECE 3320 and ECE 4408 **Corequisite:** ECE 3305

The relationship of reading, writing, speaking, and listening is studied in the context of the diverse elementary classroom, grades 3-5. Assessment, instruction, management, and differentiation of reading comprehension and writing composition are stressed as well as the incorporation of technology to support and extend literacy skills for all learners. This course has a required field experience.

ECE 3340:Diagnosis and Application of Literacy Instruction in the Early Childhood Classroom

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education program, ECE 3320; ECE 3330

This course is the study and application of diagnostic and instructional activities for the pre-service elementary and early childhood classroom teacher. It includes both formal and informal diagnosis, interpretation of formal and informal tests results, planning and implementation of instructional actions, application of literacy diagnosis across the curriculum, and diagnosis of the classroom literacy environments and instruction. Includes a 20 hour field experience.

Notes: Proof of liability insurance and background check are required for placement.

ECE 3360:Reading, Process Writing, and Language Arts, K-5

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education and ECE 3320

The relationship among reading, writing, speaking, listening, and viewing is studied in the context of national and state K-5 standards. Context area reading and writing are taught within a text-based instructional framework. The course will ensure that candidates understand language development, the transition from learning to read to reading to learn, the connection between reading and writing, the process approach to writing instruction, and the use of technology to extend and support literacy.

ECE 3364:Children's Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education program

This course is a survey of literature appropriate for infants through kindergarten and early grade readers. It reviews both current and traditional works in several genres and considers various approaches for teaching such literature.

ECE 3398: Internship

1-12 Credit Hours

Prerequisite: Permission of the director of the Center for Education Placements and Partnerships, advisor, and department chair.

This course is comprised of a supervised teaching experience for teachers seeking certification renewal credit.

ECE 3410: Human Reproduction, Perinatal Development, Health, Safety, and Nutrition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Birth through Kindergarten Teacher Education Program.

Corequisite: ECE 3420

Students will learn about human reproduction, the effects of heredity and environment upon fertility, conception, and prenatal development. They will study development from conception to birth, the stages of pregnancy, prenatal health care, the birth process, and associated risk factors. They will learn the importance and effects of maternal attachment, bonding, and nursing. They will study the newborn's amazing capabilities, the importance of effective care, the nutritional needs of mother and child, infectious disease control, and consider safety issues.

ECE 3415: Infants: Stages of Growth and Development & Developmentally Appropriate Care and Activities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Birth through Kindergarten Teacher Education Program. **Corequisite:** ECE 3410, ECE 3420.

This course provides students with an understanding of the importance of infant development from birth to eighteen months of age. Students will study the dramatic physical, sensorial, emotional, and cognitive growth that occurs during each stage of development. They will learn to create supportive environments and to use appropriate materials, activities, and methods of care and education that can enhance the important developmental periods that children experience from birth to 18 months of age.

ECE 3420: Observation and Supervised Practice Teaching - Infants

1 Class Hours 7 Laboratory Hours 5 Credit Hours

Prerequisite: Admission to the Birth through Kindergarten Teacher Education Program. **Corequisite:** ECE 3410, ECE 3415.

Teacher candidates will learn to develop, plan, and implement strategies for the care and education of infants from birth to 18 months of age. Candidates will teach under the supervision of childcare professionals and a university faculty. Candidates will develop skills in the application of developmentally appropriate practices with infants. Candidates will meet with a university supervisor each week to review planning and teaching strategies and to discuss their concerns. Verification of professional liability insurance is required prior to placement in the teaching experience.

ECE 3435: Toddlers: Stages of Growth and Development & Developmentally Appropriate Care and Activities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Birth through Kindergarten Teacher Education Program. **Corequisite:** ECE 3445.

Students will develop an understanding of the importance of infant development from eighteen months to three years of age. Students will learn to identify and support the important physical, sensorial, emotional, language, and cognitive growth that take place during each stage of development. They will learn how to enhance that development through the creation of supportive environments and through the application of developmentally appropriate activities, methods, and materials.

ECE 3445: Observation and Supervised Practice Teaching - Toddlers

1 Class Hours 7 Laboratory Hours 5 Credit Hours

Prerequisite: Admission to the Birth through Kindergarten Teacher Education Program. **Corequisite:** ECE 3435.

Teacher candidates will learn to develop, plan, and implement strategies for the care and education of toddlers from 18 months to 3 years of age. Candidates will teach under the supervision of child care professionals and university faculty. Candidates will develop skills in the application of developmentally appropriate practices with toddlers. Candidates will meet with a university supervisor each week to review planning and teaching strategies and to discuss their concerns. Verification of professional liability insurance is required prior to placement in the teaching experience.

ECE 3510: Fostering Young Children's Learning Through Play

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education program

This course is designed to provide teacher candidates with the knowledge and understanding of children's play in a variety of settings. A review of play theories as well as a historical approach to play is presented. Teacher candidates have the opportunity to explore the relationship of play to curriculum development and assessment. Issues regarding gender, culture, second language acquisition, socioeconomic status, stress and personality types are discussed in relationship to play.

ECE 3520: Infant and Toddler Curriculum and Assessment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program. **Corequisite:** ECE 3565

In this course candidates design and implement developmentally appropriate curriculum and assessment for infants and toddlers. Candidates utilize developmentally appropriate practices for all infants, toddlers, and very young children, including those with cultural and language differences and/or special needs.

ECE 3530:Movement, Music and Art in Birth through Kindergarten Programs

2 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: Admission to Teacher Education program **Corequisite:** ECE 4555

Teacher candidates will learn the utilization of art, music, movement and creativity to instruct children from infancy through five years of age. Topics that will be studied include movement exploration, children's games, finger plays and songs. This course may require a field experience in an early learning environment. Verification of professional liability insurance is required.

ECE 3560:Instructing Young Children through Art, Music, and the Aesthetic Domain

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program, ECE 2205 and ECE 2250 **Corequisite:** ECE 4515, ECE 3530, and ECE 4545.

The role of art, music, and creativity will be explored. Teacher candidates will understand the relationship of the infant and young child's development to creative expression, art, and music. Methods of implementing art, music, and creative development in teaching infants and young children will be taught.

Notes: An intensive field experience will be included.

ECE 3565:Infant/Toddler Practicum

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: ECE 2205

This course is designed to provide the knowledge and skills to teach children ages six weeks through 36 months. Participation in an intensive 60-hour, hands-on field experience in selected infant toddler/ classroom is required. Lesson plan development, implementation and assessment of infants and toddlers are addressed. Candidates learn how to effectively work with diverse infants and toddlers, including those babies and toddlers with developmental delays and english-language learners.

ECE 3570:Preschool Practicum

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: ECE 2205

This course is designed to provide the knowledge and skills to teach children ages 3 years through 5 years. Teacher candidates taking this course will participate in an intensive 60-hour, hands-on learning experience in selected preschool/pre-kindergarten classrooms. Lesson plan development, lesson implementation, and assessment of diverse preschoolers are addressed in this course. Teacher candidates learn how to effectively work with diverse preschoolers/pre -kindergarteners, including those young children with developmental delays and English Language Learners.

ECE 3575:International Approaches to Early Care and Learning

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Admission the Teacher Education

This course addresses comparative early care and instruction for infants and children in international settings, including countries in Asia, Africa, Europe, Central and South America Australia and North America. Candidates will explore the diversity of prenatal care, parenting, family practices, and international and child welfare issues. Candidates will also develop knowledge and skills of global awareness and instruction in early learning.

ECE 4305:Motor Development and Refined Control of Movement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4310, ECE 4315, ECE 4320.

Students will learn how essential movement is to the physical, emotional, and cognitive development of children. They will learn to present children with motives of activity in which action and interest combine to provide irresistible activities that children love to repeat spontaneously. Students will understand that children develop independence and achieve concentration and self-realization when they work with developmentally appropriate materials. Students will learn to implement teaching strategies that enhance the child's physical, cognitive, emotional, and social development.

ECE 4310:A Conceptual Framework for the Montessori System of Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education program

Insights into the nature of child development reveal that respect for the child's inner teacher serves as the integrating principle for the effective education of young children. Students will discover that the sensitive periods are the most powerful times for learning. Students will learn the importance of the prepared environment as the third essential element in the teaching learning equation. This environment supports individual and collaborative learning and encourages positive social interaction. Students will learn that the Prepared Environment encourages active engagement in learning, the emergence and development of concentration and intrinsic motivation. This Conceptual Framework undergirds the research based Montessori System of Education.

ECE 4315:Sensorial Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4305, ECE 4310, ECE 4320.

Candidates will learn to use a rich array of developmentally appropriate materials that address each of the child's senses in ways that establish foundations for cognitive growth. Work with these materials promotes the development that children need for the successful mastery of writing, reading, and mathematics skills. Candidates learn to give sensorial presentations with Geometry, Botany, Geography, and Peace Education Curriculum materials and also learn to help children develop listening, sight singing and musical notation skills.

ECE 4320:Observation and Supervised Internship - Early Childhood I

1 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: Admission to program **Corequisite:** ECE 4305, ECE 4310, ECE 4315.

Candidates will learn to develop, plan, and implement strategies for the care and education of 3 to 5

year old children. Candidates will teach under the supervision of childcare professionals and university faculty. Candidates will develop skills in the presentation of developmentally appropriate practical life and sensorial materials to 3 to 5 year old children. Verification of professional liability insurance is required prior to placement in the teaching experience.

ECE 4335:Acquisition of Language and Literacy Skills in One or More Languages

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4345, ECE 4355, ECE 4336

Students will be introduced to classified vocabulary and the presentation of the nomenclatures of Biology, Geography, Zoology, History, and the Arts that enrich and extend children's oral language skills. Students will be introduced to research-based key words, cursive sandpaper letters and movable alphabets help children develop phonemic awareness and achieve sound-symbol associations. Candidates will present writing activities that lead children to discovery reading spontaneously. Candidates will learn to apply the principles of second language acquisition research to the instruction of English language learners.

ECE 4336:The Competent Manufacture and Presentation of Language Materials

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4335, ECE 4345, ECE 4355

Students will manufacture and practice presenting the many research-based language materials designed for use in offering developmentally appropriate language arts presentations and activities to 3-5 year old children. These materials are not available from Montessori suppliers, so each teacher prepares 70 selected materials for his/her own classroom. Students practice with the materials to develop and refine the skills they need to give language presentations to young children effectively.

ECE 4345:Preparing the Mathematical Mind of the Young Child

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4335, ECE 4336, ECE 4355

Research-based materials and teaching/learning strategies are used to present numeration and mathematics to young children. Candidates will learn to present linear counting, the four operations and tables, commulative and squaring operations, binomial addition, and the multiplication of polynomials to young children. Memorization materials are presented with which to review and enhance the recall of known number facts.

ECE 4355:Observation and Supervised Internship - Early Childhood

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: ECE 4320 **Corequisite:** ECE 4335, ECE 4336, and ECE 4345.

Teacher candidates will learn the utilization of art, music, movement and creativity to instruct children from infancy through five years of age. Topics that will be studied include movement exploration, children's games, finger plays and songs. This course may require a field experience in an early learning environment. Verification of professional liability insurance is required.

ECE 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair prior to registration.

A directed study is a concentrated investigation of a particular aspect of education as a topic within a teaching field concentration or degree major. The content of the directed study will be determined jointly by the instructor and the student.

ECE 4401:Teaching Mathematics in Early Childhood Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 3318

This course consists of the integration of mathematics concepts, principles and processes into the teaching of mathematics in preschool through fifth grade. Emphasis is placed upon developmentally appropriate practices and culturally relevant pedagogies in planning, implementing and evaluating instruction in the mathematics curriculum.

Notes: Verification of professional liability insurance is required prior to placement in the field experience.

ECE 4402:Teaching Science in Early Childhood Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISCI 2001 and ISCI 2002 **Corequisite:** ECE 4410

This course is the study of integrating science concepts, principles and processes into the teaching of science in preschool through fifth grade. Emphasis will be placed upon developmentally appropriate practices in planning, implementing and evaluating instruction in the science curriculum.

Notes: Verification of professional liability insurance is required prior to placement in the field experience.

ECE 4403:Teaching Social Studies in Early Childhood Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Corequisite: ECE 4410

This course consists of integrating social studies across the curriculum and effective strategies for planning, implementing and evaluating instruction in social studies in preschool through fifth grade. Emphasis is placed upon developmentally appropriate practices and culturally relevant pedagogies in planning, implementing and evaluating instruction in the social studies curriculum.

ECE 4404:Teaching Reading & Language Arts Across the Curriculum in Early Childhood Education

2 Class Hours 5 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 3302 and ECE 3340

This course encompasses the study of the integration of language arts across the curriculum and

effective strategies for planning, implementing and evaluating instruction in reading, writing, listening and speaking in preschool through fifth grade. Emphasis on assessment techniques and approaches to conducting guided lessons in reading and writing that are culturally and developmentally appropriate. Includes an extensive field experience and media use.

Notes: Verification of professional liability insurance is required prior to placement in the field experience.

ECE 4405:Teaching Language Arts and Social Studies in Early Childhood

2 Class Hours 5 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the TOSS program and ECE 3340

This course includes the study and application of social studies and language arts as integrative elements of the elementary curriculum. Candidates will focus on the nature and theory in order to prepare students to become citizens actors, adopt problem solving dispositions and achieve excellence in the application of oral and written communication skills.

Notes: Verification of professional liability insurance is required prior to placement in the field experience.

ECE 4406:Teaching of Elementary Education Internship

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the TOSS program. **Corequisite:** ECE 4401; ECE 4402; ECE 4403; ECE 4404

This course is an intensive and extensive field experience in an elementary school. Candidates will be required to spend seven and one half hours per day, five days a week, for four weeks. Candidates must have a satisfactory field experience to continue on to student teaching. Proof of professional liability insurance and a criminal background check are required prior to receiving a school placement.

ECE 4408:Teaching Mathematics in Grades P-2

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education Program, EDUC 2130 **Corequisite:** ECE 3320

This course consists of the integration of mathematics concepts, principles and processes into the teaching of mathematics in preschool through second grade. Emphasis is placed upon developmentally appropriate practices and culturally relevant pedagogies in planning, implementing and evaluating instruction in the elementary mathematics curriculum. This course includes field experience to enhance learning.

ECE 4409:Teaching Mathematics in Grades 3-5

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECE 4408, MAED 3316, ECE 3320, and ECE 3313 **Corequisite:** ECE 3305

This course consists of the integration of mathematics concepts, principles and processes into the

teaching of mathematics in grades three through five. Emphasis is placed upon developmentally appropriate practices and culturally relevant pedagogies in planning, implementing and evaluating instruction in the elementary mathematics curriculum. This course includes a required field experience.

ECE 4410:Reading and Writing Across the Curriculum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 3317 **Corequisite:** ECE 4650

This course consists of integrating language arts across the curriculum and effective strategies for planning, implementing, and evaluating instruction in reading, writing, listening, and speaking in preschool through fifth grade. Emphasis is placed upon assessment techniques and approaches to conducting guided lessons in reading and writing that are culturally and developmentally appropriate.

ECE 4473:Student Teaching: Early Childhood (P-5)

0 Class Hours 36 Laboratory Hours 12 Credit Hours

Prerequisite: Admission to student teaching.

Full-time teaching experience under the supervision of a public school cooperating teacher and college supervisor. Verification of professional liability insurance is required before placement in student teaching.

ECE 4475:Designing and Sustaining a Classroom Learning Community

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Corequisite: ECE 4650

This course is designed for elementary teacher candidates to explore ways in which positive classroom learning communities are designed, implemented, and sustained. Teacher candidates will also examine their own cultural backgrounds and students' cultural backgrounds, and investigate ways in which they may strengthen teacher-student and student-student relationships in the classroom. Theories investigated in the course will be discussed in relation to the candidates' experiences within the clinical practicum.

ECE 4490:Special Topics in Education

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

This course is comprised of selected special topics of interest to faculty and students.

ECE 4515:Methods in Teaching and the Development of Teaching Language & Literacy in Birth through Kindergarten

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program. **Corequisite:** ECE 4545

This course is designed to deepen the study of language development in typically and atypically developing children from infancy through five years. Candidates learn ages and stages of literacy

development, family and cultural influences, and the importance of a language and literacy-rich environment. Candidates also learn methods and strategies for teaching pre-reading and reading to very young children.

ECE 4525:Methods of Nurturing Second Language Acquisition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program; EDUC 2120. **Corequisite:** ECE 3570
Candidates will be introduced to the stages of early language development and learn strategies for fostering that development in children birth through five years of age. Candidates will learn appropriate techniques for working with very young dual language learners and families and examine major principles of linguistics as they occur with very young children. Candidates will explore oral and written language teaching for young children and assessment tools for evaluating early dual language development.

Notes: Verification of professional liability insurance is required.

ECE 4535:Methods of Instruction and Identification of B-5 Children with Special Needs

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission into Teacher Education

This course is designed to assist the teacher candidate in preparing environments to meet the needs of diverse children with developmental delays, medical conditions, and cognitive, language, and emotional differences. Legal issues and terms involving preschool special education will be addressed. Curriculum modification and environmental accommodations for children with special needs will be reviewed. Assessment techniques and the role of service providers will be discussed. This course will include a 15-hour field experience.

Notes: Verification of professional liability insurance is required.

ECE 4545:Methods in Math & Science in Birth through Kindergarten

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education **Corequisite:** ECE 4515

This course focuses on integrating the science processes, principles, and concepts of inquiry-based science into early childhood education. Candidates develop and implement math and science curriculum in developmentally appropriate ways to diverse young children. Candidates also design and implement developmentally appropriate math and science assessments with young children. A field experience in an early learning environment may be required.

ECE 4555:Methods for Teaching Social Studies Birth through Kindergarten

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education **Corequisite:** ECE 3530

Candidates plan and teach developmentally appropriate social studies lessons for birth-through-kindergarten students using research-based early childhood teaching methods. Candidates also

design and implement developmentally appropriate assessments with young children in their field experience. Additionally, candidates design and evaluate discipline and guidance practices to promote healthy social and emotional development.

ECE 4598:Birth through Five Internship I

0 Class Hours variable 4 - 24 Laboratory Hours variable 1-6 Credit Hours

Prerequisite: ECE 3520, ECE 3313, ECE 2590 , ECE 4525 and ECE 4535; Approval of the Department is Required

This is a supervised intensive internship in a birth through five educational setting. Participation in group instruction, lesson planning, classroom management, indoor and outdoor activities under the guidance of a collaborating teacher and university supervisor is required. Candidates will practice skills and strategies that impact the young child's development and learning. This course does not lead to Certification under the Georgia Professional Standards Commission. Note: Proof of liability insurance, College of Education approved background check, and Bright from the Start background check are required. Can be repeated for a total of 12 credit hours.

ECE 4599:Birth through Five Internship II

0 Class Hours Variable 12-36 Laboratory Hours Variable 3-9 Credit Hours

Prerequisite: ECE 4598

This is a supervised intensive internship in a birth through five educational setting. Participation in group instruction, lesson planning, classroom management, indoor and outdoor activities under the guidance of a collaborating teacher and university supervisor is required. Candidates will practice skills and strategies that impact the young child's development and learning. This course does not lead to Certification under the Georgia Professional Standards Commission. Note: Proof of liability insurance, college of education approved background check, and Bright from the Start background check are required. Can be repeated for a total of 12 credit hours.

ECE 4635:Practicum

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Corequisite: ECE 4403

Candidates are placed in school settings for the purpose of developing their skills in the areas of planning and instruction. Observations and participation in a classroom setting are required with a focus on social studies and culturally relevant learning experiences, materials, and equipment.

ECE 4650:Yearlong Clinical Experience I (P-5)

0 Class Hours variable 12-24 Laboratory Hours variable 3-6 Credit Hours

Prerequisite: Admission to Teacher Education, Admission to the Yearlong Clinical Experience, Issued Pre-Service Certificate, ECE 3330 and ECE 4409 **Corequisite:** EDUC 4610 and ECE 4410

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in elementary education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and

English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars.

ECE 4660:Yearlong Clinical Experience II (P-5)

1 Class Hours variable 24-36 Laboratory Hours Variable 6-9 Credit Hours

Prerequisite: ECE 4650 ; Eligibility to take GACE

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in elementary education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment. Proof of liability insurance is required.

EDSM 1101:Step 1: Inquiry Approaches to Teaching

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course provides students with the opportunity to explore teaching as a career. Following an introduction to the theory and practice behind excellent inquiry-based science instruction, students teach lessons in elementary classrooms to obtain firsthand experience in planning and instruction.

Notes: Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement. Course is restricted to participants in the KSUTeach program.

EDSM 1102:Step 2: Inquiry-based Lesson Planning

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: EDSM 1101

Students continue developing lesson planning skills learned in EDSM 1101 as they become familiar with middle school science curricula. After observing a lesson being taught in a middle school classroom, students plan and teach inquiry-based lessons to middle school learners. Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement. Course is restricted to participants in the OwlTeach program.

Economics

ECON 1000:Contemporary Economic Issues

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course provides students with the knowledge and tools necessary to critically examine social and policy issues from an economic perspective. Fundamental economic questions as they relate to individuals, firms, and society in the modern global world are addressed. Students learn about different economic systems, how markets function, the role of government in the economy, the basis for international trade, measurement of macroeconomic performance, and the impact of globalization on living standards and economic growth.

ECON 2105:Principles of Macroeconomics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: MATH 1111 or higher; Non-business Majors:MATH 1101 or higher
This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies.

ECON 2106:Principles of Microeconomics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: MATH 1111 or higher; Non-business Majors: MATH 1101 or higher.
This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze structure and performance of the market economy.

ECON 2300:Business Statistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Business Majors: MATH 1111; Non-business Majors: MATH 1101

An introduction to descriptive and inferential statistics with an emphasis on business applications. Topics covered include data summarization, probability distributions, sampling methods, confidence intervals, hypothesis testing, online data sources, and ethics in research. Small case studies are used to illustrate statistical applications within business settings.

ECON 3300:Applied Statistical and Optimization Models

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200 and (ECON 2300 or STAT 1401), 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will convey a working knowledge of several of the most commonly employed quantitative models to support data analysis and improved decision-making within a business environment. Students will learn to identify and apply the appropriate modelling techniques as well as how solve the resultant models via spreadsheet tools and applications. In addition, the course promotes and develops problem-solving and critical thinking skills through the evaluation of problem scenarios and short case-studies.

ECON 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised work experience program for a minimum of two academic semesters at a site in business, industry, or government. For sophomore, junior, or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

ECON 3398: Internship

1-12 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency, or government agency. A research paper is required to receive credit. For junior or senior students who wish to participate in an on the job experience in which they may apply their academic education. The work experience may not be with a current employer. This course will be graded on an S/U basis.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

ECON 3478: Economics of Healthcare

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Any 1000 level MATH or STAT course, and Any 1000, 2000, or 3000 ECON course

This course provides an overview of the structure of health care markets in the United States. Students will learn to understand the economic issues that mold the structure and evolution of the health care industry in the US and globally. Students will evaluate the impact of the health care system in the United States on the competing goals of broad access, high quality, and affordability. Students will also identify how consumers and providers respond to changes in incentives and develop an appreciation for opposing views on health care reform.

ECON 4210: Money and Financial Markets

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105 and FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Analyzes the operation, structure, regulation, and control of financial markets emphasizing the effects on the level and term structure of interest rates, economic activity, and business decisions. Focuses on monetary theory, monetary and fiscal policies, the Federal Reserve System, and financial institutions, markets, and instruments.

ECON 4310: Economic Development in Global Perspective

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An analysis of key development issues both as they relate to individual countries and to factors

linking countries, such as international trade and capital flows. Topics addressed include savings, investment, technology, demographics, human resources, and economic institutions. Investigates these topics for third world countries and those that are more economically advanced.

ECON 4400:Directed Study

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Special topics of an advanced nature not in the regular course offerings.

ECON 4410:International Trade and Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Principles of international trade and finance. Management of foreign operations of the firm within constraints of the international environment. Study of international currency flows, exchange rates and international banking practices.

ECON 4490:Special Topics in Economics and Quantitative Analysis

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and department chair prior to registration. Selected special topics of interest to faculty and students. This course may be taken more than once.

Notes: Up to 9 credit hours are permitted.

ECON 4510:Microeconomics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2106, ECON 2105, (MATH 1160 or MATH 1190) and Admission to the Coles College Undergraduate Professional Program; or student in a Coles College Partner Program that includes this course and 60 credit hours with a minimum GPA of 2.0

Theory of the determination of price and output in both partial and general equilibrium. Topics include the theory of the firm, consumer behavior, analysis of market structures, welfare economics, social choice, the theory of games, and asymmetric information.

ECON 4530:Public and Urban Economics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles

College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course considers the application of economic models to analyze the role of government in correcting market failures, the effects of taxation and expenditure policies on the allocation of resources, and the distribution of income. There is an emphasis on the optimal provision of public goods, the incidence and behavioral effects of taxes, regulation of externalities, public choice and the spatial organization of the economy.

ECON 4550: The Economics of Strategy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105 and ECON 2300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An economic analysis of the fundamental issues that underpin the firm's strategic pricing, production, and resource allocation decisions in alternative competitive environments. Topics include the horizontal, vertical and corporate boundaries of the firm, the nature of competitive markets and competitive interactions among firms, how the firm positions itself to compete, and how the firm designs its organizational architecture to support its competitive goals.

ECON 4590: Applied Equity Valuation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the Department Chair, and FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College. Membership in Student Managed Investment Fund. This course presents the practical applications of economic and quantitative analysis to determine the intrinsic value of a publicly-traded firm. Students apply contemporary valuation techniques to value an actual firm and prepare a comprehensive investment report based on an evaluation of industry-level economic and competitive conditions, and firm-specific operating risk and financial projections.

ECON 4610: Macroeconomics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Analysis of the determination of output, employment, interest rates, and income with emphasis on the influence of fiscal and monetary policy.

ECON 4710: Econometrics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105, (ECON 2300 or STAT 1401), 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Study of the tools used for estimating and forecasting demand, revenue and cost, as well as demographic characteristics of importance to an individual in a business decision-making position.

ECON 4750:Multivariate Data Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105, (ECON 2300 or STAT 1401) 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The theory and application of quantitative methods of data analysis. Emphasis is on the application of statistical principles to empirical model building in business and economics. Topics include regression analysis, analysis of variance, factor analysis, discriminant analysis, parametric and nonparametric tests, sampling techniques, and experimental design.

ECON 4760:Business Forecasting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and [(ECON 4710 and Admission to the Coles College Undergraduate Professional Program) or ((ECON 4710 or STAT 3130) and student in a Coles College Partner Program that includes this course.)]

Econometric and time series methods for forecasting business and economic data are introduced. Specific topics include: basic graphic methods for analyzing data; modeling forecasting trend and seasonality; ARMA modeling of time series; unit root and ARIMA process; forecasting volatility; evaluation and comparison of forecasting models.

ECON 4810:Quantitative Decision Models

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105 and ECON 3300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course focuses on both the theory and application of quantitative models to support decision-making under uncertainty. General topics include basic spreadsheet modeling, general probability distributions and decision making under uncertainty, and risk analysis. Specific topics to be covered include Monte Carlo Simulation, Decision Trees, and Real Options Analysis. A mixture of cases and in-class demonstrations will be used to develop your skill in applying management science approaches to decision making within a business environment.

ECON 4850:Decision Analysis and Simulation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2105 and (ECON 2300 or STAT 1401), 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The theory and application of stochastic decision models. Emphasis is on the application of probability and simulation techniques to structure decision problems in business and economics.

Topics include measurement of risk, decision processes, decision analysis, and static and dynamic simulation models.

Education

EDUC 2110: Investigating Critical and Contemporary Issues in Education

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course engages potential education candidates in observations and interactions in schools, and analyses of critical and contemporary educational issues. Candidates investigate issues influencing the social and political contexts of educational settings in Georgia and the United States. Candidates actively examine the teaching profession from multiple vantage points both within and outside the school. Against this backdrop, candidates reflect on and interpret the meaning of education and schooling in a diverse culture. Includes the use of current technologies which are directly related to effective teaching and 15 hours of observation and participation in an appropriate school setting elementary/early childhood, middle grades, secondary or P-12 environments. Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement.

Notes: Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement.

EDUC 2120: Sociocultural Influences on Teaching and Learning

2 Class Hours 1 Laboratory Hours 3 Credit Hours

This course introduces teachers to fundamental knowledge of culture essential for effective teaching in increasingly diverse classrooms. Designed as a foundation course for subsequent courses focused on the preparation of culturally responsive teachers, this course examines 1) the nature and function of culture; 2) the development of individual and group cultural identity; 3) definition and implications of diversity. Includes 15 hours of observation and participation in an appropriate school setting- elementary/early childhood, middle grades, secondary or P-12 environments. Verification of professional liability insurance and a criminal background check are required prior to receiving a school placement.

EDUC 2130: Exploring Teaching and Learning

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 2110

This course explores key aspects of learning and teaching through examining your own learning processes and those of others, with the goal of applying your knowledge to enhance the learning of all students in a variety of educational settings and contexts. Includes 10 hours of observation and interaction with a learner in a naturalistic setting. Current use of technology will be integrated as communication and instructional tools. Verification of professional liability insurance is required.

EDUC 2201:Teaching and Schools in a Changing Society

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

An introductory study of current issues and problems in American education from historical, political, economic, social, philosophical, multicultural, and global perspectives. Focuses on efforts of schools to adapt to a changing society, the role of the teacher as a professional educator and professional ethics. Includes the use of current technologies which are directly related to effective teaching and 30 hours of observation and participation in a classroom setting appropriate to the students' professional interests in elementary/early childhood, middle grades, secondary, or P-12 education. Verification of professional liability insurance is required prior to enrolling in this course.

EDUC 2202:Life Span Development: Adolescent and Young Adulthood Emphasis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

A study of human development through the life span addressing social, moral, emotional, physical, cognitive and psychological development, with an emphasis on how these relate to learning and instruction of adolescents and young adults. Course examines impact of learning styles, developmental and cultural differences, and various levels of student abilities, exceptionalities, and health. Current use of technology will be integrated as communication and instructional tools. Teacher candidates will have the opportunity to observe in naturalistic settings.

EDUC 2204:Human Growth, Development and Learning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

A study of human development through the life span with emphasis on social, moral, emotional, physical, cognitive and psychological development as these relate to learning and instruction. Includes discussing learning styles, developmental and cultural differences, wide range of abilities and exceptionalities, and health. Current use of technology will be integrated as communication and instructional tools. Students will observe children in naturalistic settings, such as schools and day care centers.

EDUC 3110:Introduction to Urban Education

3 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

This course helps teacher candidates to 1) examine the relationship between the urban context and educational policies and practices in urban schools; 2) examine categories of race, ethnicity, class, gender, language, religion, sexuality, and ability as social relations of power that impact urban school experiences; and 3) examine the impact of the urban context on students, teachers, parents, and the community. An intensive 35-hour field component is a requirement of this course.

EDUC 3302:Curriculum and Assessment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education Program

Examines theories and principles of curriculum and assessment. Focus is placed on the identification and construction of learning outcomes and the development and selection of culturally responsive units and lesson plans. Focus is also placed on standardized and teacher constructed assessment tools consistent with these objectives. Emphasis is placed on the use of assessment tools for instructional decision-making. Technology is integrated for enhancing and assisting instruction.

EDUC 3308:Learning, Motivation, and Classroom Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

Examines theories, models, and principles of learning, motivation, and classroom management in schools. In level-specific modules, particular emphasis is placed on the application of theoretical principles to early childhood, middle grades, or secondary classroom settings. Addresses learning theories, motivational theories, learning styles and individual differences, and models and strategies for implementing effective systems of time, material, environment and behavior management in diverse classroom settings. Various technological applications, including the World Wide Web, e-mail, and presentation software, will be utilized.

EDUC 3310:Multicultural Perspectives in Teaching and Learning

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: EDUC 2201

A study of the influence of diversity on teaching and learning in a pluralistic, democratic society. Examines theories and models of instruction for diversities in race, class, gender, religion, language and exceptionality found in multicultural classrooms.

EDUC 4490:Special Topics in Education

1-6. Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

EDUC 4610:Introduction to the Yearlong Clinical Experience

0 Class Hours 1 Laboratory Hours 0 Credit Hours

Prerequisite: Admission to teacher education and an issued pre-service certificate. **Corequisite:**

Varies by program: ARED 4650, MUED 4650, FLED 4650, HPE 4650, ENED 4650, HIED 4650, SCED 4650, MAED 4650, ECE 4650 or ECE 4660, or EDMG 4650

This course is the beginning to the co-teaching Yearlong Clinical Experience in education.

Candidates will attend the entirety of pre-planning at their assigned school before the start of the academic year (the exact timing of which will depend on the placement school's schedule).

Additionally, candidates will also attend the first week of the academic year in order to familiarize themselves with the policies and routines of their placement school and Collaborating Teacher.

Education - Middle Grades

EDMG 2200:Practicum

1-3 Credit Hours

Prerequisite: Permission of advisor and department chair.

An assigned practicum in a classroom during which the student will be actively involved in the teaching-learning process under the guidance of a professional teacher. Proof of professional liability insurance is required prior to receiving a school placement.

EDMG 3300:Success in the Middle: Adolescent Development and Middle Grades Advocacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program and EDUC 2130

Candidates examine the development and diversity of middle grades learners, as well as the concept and philosophy of the middle school. Issues of teaching young adolescents and the unique role teachers must play as interdisciplinary team members, content specialists, advocates for the middle school and middle level learner are explored. Information from current research and exemplary practices will be used to extend candidate knowledge. Candidates spend at least 15 hours in a classroom. A current criminal history background check and proof of liability insurance is required.

EDMG 3350:Planning, Instruction, and Assessment in the Middle Grades

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: EDMG 3300 ***Concurrent:***

ITEC 3200

This course is designed to introduce future middle grades teachers to the knowledge and skills necessary for effective planning, instruction, and assessment of a diverse population of middle-grades learners. This course includes a 15-hour field experience placement in elementary grades 4-5. A current criminal history background check and proof of liability insurance is required.

EDMG 3398:Internship

1-12 Credit Hours

Prerequisite: Permission of advisor and department chair.

A supervised work experience with an approved business firm, private agency or government agency. Credit is allowed only in elective areas.

Notes: Credit is allowed only in the elective areas.

EDMG 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair prior to registration.

A concentrated investigation of a particular aspect of education as a topic within a teaching field concentration or degree major. The content of the directed study will be determined jointly by the instructor and the student.

EDMG 4401:Teaching Mathematics in Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 and successful completion of all teaching field courses. **Corequisite:** EDMG 4650

This course is a part of a 12-hour block designed to develop appropriate teaching strategies in candidates' two teaching fields. Candidates apply learning theories, teaching techniques, questioning strategies, instructional materials, and assessment procedures for teaching mathematics to middle grades learners. Candidates will develop and implement plans for teaching in an interdisciplinary team setting.

EDMG 4402:Teaching Science in Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 and successful completion of all teaching field courses. **Corequisite:** EDMG 4650

This course is a part of a 12-hour block designed to develop appropriate teaching strategies in candidates' two teaching fields. Candidates apply learning theories, teaching techniques, questioning strategies, instructional materials, and assessment procedures for teaching science to middle grades learners. Candidates will develop and implement plans for teaching in an interdisciplinary team setting.

EDMG 4403:Teaching Social Studies in Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 and successful completion of all teaching field courses. **Corequisite:** EDMG 4650

This course is a part of a 12-hour block designed to develop appropriate teaching strategies in candidates' two teaching fields. Candidates apply learning theories, teaching techniques, questioning strategies, instructional materials, and assessment procedures for teaching social studies to middle grades learners. Candidates will develop and implement plans for teaching in an interdisciplinary team setting.

EDMG 4404:Teaching Language Arts in Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 and successful completion of all teaching field courses. **Corequisite:** EDMG 4650

This course is a part of a 12-hour block designed to develop appropriate teaching strategies in candidates' two teaching fields. Candidates apply learning theories, teaching techniques, questioning strategies, instructional materials, and assessment procedures for teaching language arts to middle grades learners. Candidates will develop and implement plans for teaching in an interdisciplinary team setting.

EDMG 4405:Curriculum and Instruction in Middle Grades

4 Class Hours 2 Laboratory Hours 5 Credit Hours

Prerequisite: EDUC 3308

This collaboratively taught course is a segment of an 11-hour block designed to develop appropriate teaming skills for middle grades teachers. The teaching team models instructional strategies that exemplify the philosophy of middle school education. Students become part of an instructional team to develop effective strategies for interdisciplinary settings. Student teams are paired with school instructional teams during an extensive field experience. Proof of liability insurance is required prior to school placement.

Notes: Proof of professional liability insurance is required prior to receiving a school placement.

EDMG 4406:Methods and Management in the Middle Grades: Field Experience

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 ***Corequisite:*** EDMG 4407 and two of EDMG 4401, EDMG 4402, EDMG 4403, and/or EDMG 4404.

This course is an intensive and extensive field experience in a middle school. Candidates will be required to spend up to four hours per day, four days per week in their placement. Candidates must have a satisfactory field experience to continue on to student teaching. Proof of liability insurance and criminal background check are required prior to receiving a school placement.

Notes: Proof of professional liability insurance and criminal background check are required prior to receiving a school placement.

EDMG 4407:Classroom Management in the Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 ***Corequisite:*** EDMG 4406 and two of EDMG 4401, EDMG 4402, EDMG 4403, EDMG 4404, and/or EDMG 4408.

The focus of this course is on preparing prospective middle grade teacher candidates to create and manage positive, productive classroom environments, including those in urban settings. It is understood that these classrooms typically include diverse groups of learners. Management is accomplished through both the development of a comprehensive understanding of the learning and behavior principles that underlie effective classroom management and acquisition of the strategies and skills needed to implement an effective management program.

EDMG 4408:Teaching Reading in the Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 3350 and successful completion of all teaching field courses. **Corequisite:** EDMG 4650

This course is a part of a 12-hour block designed to develop appropriate teaching strategies in candidates' two teaching fields. Candidates apply learning theories, teaching techniques, questioning strategies, instructional materials, and assessment procedures for teaching reading to middle grades learners. Candidates will develop and implement plans for teaching in an interdisciplinary team setting.

Notes: Proof of professional liability insurance is required prior to receiving a school placement.

EDMG 4411:Seminar in Middle Grades Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDMG 4650 **Corequisite:** EDMG 4660

This seminar supports and assesses candidate development in middle grades education during the capstone experience. Candidate reflect on the development of their competencies, skills, and dispositions, and support for teacher performance assessments is provided. Seminar discussions will challenge candidates to examine and integrate current issues, values, and practices in the middle grades.

EDMG 4475:Student Teaching in Middle Grades

0 Class Hours 36 Laboratory Hours 12 Credit Hours

Prerequisite: Admission to Student Teaching.

Full-time teaching experience under the supervision of a public school cooperating teacher and college supervisor in an upper elementary school classroom or in a middle school. Includes regularly scheduled professional seminars. Proof of liability insurance is required prior to school placement.

Notes: Proof of professional liability insurance is required prior to receiving a school placement.

EDMG 4490:Special Topics in Education

1-9 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

EDMG 4498:Classroom Internship

1-12 Credit Hours

Prerequisite: Permission of the director of Center for Education Placements and Partnerships and advisor.

A supervised teaching experience for teachers seeking certification or renewal credit. Proof of professional liability insurance is required prior to receiving a school placement.

Notes: Proof of professional liability insurance is required prior to receiving a school placement.

EDMG 4650:Yearlong Clinical Experience I

0 Class Hours 8 Laboratory Hours 2 Credit Hours

Prerequisite: Pre-service certification and Admission to Yearlong Clinical Experience, INED 4431 **Concurrent:**

Two of the following: EDMG 4401, EDMG 4402, EDMG 4403, EDMG 4404, EDMG 4408 **Corequisite:** EDUC 4610 and EDSM 3360

This course is the first semester of an intensive and extensive co-teaching yearlong clinical practice in middle grades education. Under the guidance of a collaborating teacher and university supervisor, candidates practice professional competencies that impact achievement for diverse populations of learners including students with exceptionalities and English learners. Proof of liability insurance is required.

EDMG 4660:Yearlong Clinical Experience II

0 Class Hours 36 Laboratory Hours 9 Credit Hours

Prerequisite: EDMG 4650 **Corequisite:** EDMG 4411

This course is the second semester of an intensive and extensive coteaching yearlong clinical experience in middle grades education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment. Proof of liability insurance is required.

EDSM 3360:Classroom Management in the Middle Grades and Secondary Education

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: EDMG 3350 or MAED 4414 or SCED 4414

This course prepares prospective middle grades and secondary math or science teacher candidates to create and manage positive, productive classroom environments with a diverse population of learners. Candidates will develop a comprehensive understanding of the learning and behavior principles that underlie effective classroom management and acquire the strategies and skills needed to implement an effective management program.

EDSM 4414:Teaching Secondary Math and Science- Practicum I

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to the Teacher Education Program: Obtain Pre-Service Certificate **Concurrent:**

SCED 4414 or MAED 4414

Under the guidance of a collaborating teaching and a university instructor, the teacher candidate will complete a field experience in a designated school. This experience requires working in a co-teaching environment with diverse learners and focuses on understanding and responding to learners'

mathematical or scientific reasoning.

Notes: Proof of professional liability insurance and a pre-service teaching certificate is required.

EDSM 4418:Methods of Teaching Secondary Math & Science II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDSM 4416; at least 18 hours of required courses in the content area (science or math) **Concurrent:**

MAED 4650 or SCED 4650

This is the third of three courses in a professional sequence toward becoming a well-prepared beginning secondary mathematics or science teacher. Topics include enhanced assessment and feedback strategies, developing classroom culture, and refining notions of learning, teaching, and equity. Students will apply their learning in an accompanying field experience.

Education - Reading

EDRD 3320:Understanding the Reader and the Reading Process

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 2110

A study of the socio-psycholinguistic foundations of reading and writing for teachers of adolescents. This course examines language development, reading acquisition, phonemic awareness, word identification, phonics, vocabulary, fluency, comprehension and motivation. It explores historical perspectives of reading, reading research and theory, and introduces students to a wide range of instructional practices and curriculum materials that meet the needs of all adolescent learners.

EDRD 3330:Methods and Materials for Middle Grades Content Area Reading and Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program and EDUC 2130 **Corequisite:** EDMG 4650

This course prepares candidates to teach diverse works for adolescents from a variety of sources including young adult literature as well as technical, informational, environmental text, and the media. Text selection and electronic database media resources are introduced. A focus on language and cultural diversity is included.

EDRD 3350:Integrated Reading/Writing Instruction in the Middle Grades

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDRD 3320

This course is designed to develop appropriate research-based teaching strategies that will enable candidates teaching or mentoring in a middle grades classroom to effectively integrate reading and writing instruction. Candidates will apply learning theories, teaching techniques, instructional materials, and assessment procedures for middle grades learners that apply to both reading and

writing instruction. Students will develop and implement plans for teaching writing through content area reading texts that promote critical thinking and cross-curricular engagement.

EDRD 3360:Introduction to New Literacies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDRD 3320

This course is an introduction to the evolving and multifaceted concept of literacy and its implications for adolescents in both instruction and motivation. Types of literacy to be explored include: media, digital, global, and critical literacies. Emphasis will be placed on understanding universal design in education, considering the impact of technology on literacy, evaluating texts as being current, accurate, and relevant, and developing meaningful plans to incorporate such texts into their classrooms.

EDRD 4409:Young Adult Literature: Cross-Curricular Approaches for Diverse Learners

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 2110 and one of the following ENGL 2110, ENGL 2111 , ENGL 2112 , ENGL 2120, ENGL 2130, ENGL 2131 , ENGL 2132 , ENGL 2300

This course provides an understanding for selecting and using diverse young adult literature in middle grades classrooms. It examines reading and writing theories and introduces students to various methodologies for teaching literature. It acquaints students with a reading and writing experience using diverse literary works for adolescents, introduces students to book selection aids and electronic database media resources for middle grades environments.

EDRD 4410:Reading to Learn in the Content Areas

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

A study of concepts and strategies involved in reading to learn in the content areas. Teacher candidates will study types of text; instructional grouping options; factors related to the reader, text, and context; and strategies to be applied before, during, and after reading. In addition, candidates will explore methods for evaluating textbooks, sources to supplement textbook reading, and ways to use technology within instruction. This course places a heavy emphasis on instruction for strategic reading and writing that meets the individual needs of all adolescent readers. This course is for majors in secondary education only.

EDRD 4411:Reading Diagnostics for Teachers of Adolescents

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDRD 3320 or (EDUC 2110 and ENGL 2271)

A study of the socio-psycholinguistic foundations of reading and writing for teachers of adolescents. This course examines language development, reading acquisition, phonemic awareness, word identification, phonics, vocabulary, fluency, comprehension and motivation. It explores historical perspectives of reading, reading research and theory, and introduces students to a wide range of instructional practices and curriculum materials that meet the needs of all adolescent learners.

EDRD 4420:Teaching Adolescents with Disabilities in Literacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDRD 3320

This course prepares prospective content teachers to increase the literacy of students with disabilities in inclusive classrooms. Teacher candidates will learn to: (a) recognize various types of reading and writing disabilities; (b) effectively implement Response to Instruction; (c) develop inclusive, multi-level lesson plans embed accommodations and modifications; (d) identify appropriate roles for parents in fostering literacy in students with disabilities; and (e) work collaboratively with special education teachers.

Electrical and Computer Engineering Technology

ECET 1001:Orientation

1 Class Hours 0 Laboratory Hours 1 Credit Hours

This course will provide an introduction to Electrical and Computer Engineering Technology, to include: an introduction to the ECET faculty, an overview of career opportunities, available campus facilities, student organizations, etc. Some of the skills necessary to students will also be introduced. These include: writing formal lab reports and learning basic computer skills.

ECET 1012:Design Fundamentals

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Concurrent:

ECET 1001 and (MATH 1113) **Corequisite:** ECET 1012L

This course will introduce students to engineering technology design principles by having them participate in team based design projects. Major goals of the course include learning how to work in teams and learning how to approach a complex design problem from many different perspectives. Fundamental engineering technology skills will also be taught which include critical thinking, debugging methodologies, and circuit construction techniques.

ECET 1012L:Design Fundamentals Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

ECET 1001, ECET 1012, and (Math 1112 or MATH 1113)

In this course students will apply engineering technology design principles to assigned team-based design projects. In addition, students will learn about basic electrical instrumentation, basic circuit construction techniques, circuit debugging methodologies, data collection, and the application of analytical and simulation tools to engineering design problems will be emphasized. Teamwork, as well as written and oral communications, will be emphasized through reports and presentations.

ECET 1101:Circuits I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 1012, and ENGL 1101 **Concurrent:**

MATH 1190 **Corequisite:** ECET 1101L

This course introduces electrical quantities, element configurations, and circuit analysis tools. DC circuit analysis is emphasized, including circuits containing dependent sources and techniques such as mesh analysis, nodal analysis, superposition, and Thevenin equivalence. Reactive elements are examined, as are the transient responses of circuits that contain a single reactive element. Sinusoidal AC circuit analysis is introduced through the application of basic circuit laws to series and parallel configurations.

ECET 1101L:Circuits I Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 1012 and ENGL 1101 **Concurrent:**

ECET 1101 and MATH 1190

This course provides laboratory experiences to complement ECET 1101 Circuits I. Basic prototyping and testing skills are developed, and lecture concepts are reinforced. Circuits are constructed on solderless breadboards using standard electrical components, and measurements are completed using general-purpose instrumentation.

ECET 1200:Digital I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

ECET 1101 **Corequisite:** ECET 1200L

This course is a study of digital circuit fundamentals with an emphasis on combinational and sequential logic design, logic simplification and implementation using standard digital integrated circuits and programmable logic devices. Topics also include binary number systems, binary arithmetic, logic families, design techniques, logic simulation, flip-flops, counters, registers, memory technologies, and VHDL programming.

ECET 1200L:Digital I Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

ECET 1200

The laboratory component of ECET 1200 is designed to provide the student with hands-on experience in the fundamental concepts and techniques of discrete logic design and implementation using Boolean logic. The concepts are extended into programmable logic design (PLD) using a VHDL programming language. Lab exercises are based on modern digital design principles and practices.

ECET 2111:Circuits II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 1101 and ECET 1101L **Concurrent:**

MATH 2202 and ((PHYS 2211 and PHYS 2211L) or (PHYS 1111 and PHYS 1111L))

This course primarily extends the circuit analysis techniques learned in ECET 1101 to circuits containing all three types of passive circuit elements and sinusoidal sources. Several adjunct topics are then presented including analysis of complex networks, dependent sources, transformers, 3-phase circuit analysis, resonance, filters and Bode plots. Laboratory exercises reinforce theoretical concepts presented in the class and provide various opportunities to become proficient in working with standard instrumentation in electrical engineering technology.

ECET 2111L:Circuits II Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 1101 and ECET 1101L **Concurrent:**

ECET 2111

This laboratory course reinforces theoretical concepts presented in ECET 2111, expanding on circuit analysis techniques learned in ECET 1101 to circuits containing all three types of passive circuit elements and sinusoidal sources. Students document experimental lab results in reports evaluated based on completion, format, and data accuracy. Lab sessions offer students the opportunity to become proficient in working with standard instrumentation in electrical engineering technology.

ECET 2210:Digital II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 1200 and ECET 2300 **Corequisite:** ECET 2210L

This course is a study of industry-dominant microcontroller architecture and assembly programming language. Principles covered include: the study of an industry standard micro-controller, assembly language programming, logic family characteristics, system interfacing and system timing issues.

ECET 2210L:Digital II Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 1200 and ECET 1200L **Concurrent:**

ECET 2210

The laboratory component of ECET 2210 is designed to provide the student with hands-on experience in the fundamental concepts and techniques of microcontroller system design. The concepts are extended into assembly programming language. Lab exercises are based on modern microcontroller embedded design principles and practices.

ECET 2300:Electronics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 **Concurrent:**

ECET 2111, and (PHYS 2211 or PHYS 1111) **Corequisite:** ECET 2300L

This course is a study of the characteristics, analysis, and practical applications of diodes, bipolar-junction transistors (BJTs), and field-effect transistors (FETs). Semiconductor theory, biasing, and small-signal models of BJTs and FETs are included. An introduction to the ideal op amp and basic circuits using it is included.

ECET 2300L:Electronics I Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: MATH 1190 **Concurrent:**

ECET 2111, ECET 2300, and (PHYS 1111 or PHYS 2211)

This course provides laboratory experiences to complement ECET 2300 Electronics I. Standard devices such as op-amps, diodes, bipolar-junction transistors, and field-effect transistors are employed to construct circuits used to: examine device/circuit behavior, become familiar with associated measurements, and reinforce lecture concepts.

ECET 2310:Electronics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2111, and ECET 2300 **Corequisite:** ECET 2310L

This course is a study of bipolar junction transistor (BJT) and field effect transistor (FET) amplifiers including: amplifier frequency response, multistage amps, differential amps, feedback principles, and heat sink principles. The characteristics, performance and, practical applications of modern linear integrated circuits including: operational amplifiers, comparators, multipliers, logarithmic amplifiers, and oscillators are also covered.

ECET 2310L:Electronics II Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2111, ECET 2300, and ECET 2300L **Concurrent:**

ECET 2310

Students simulate, build, and test single- and multi-stage transistor amplifier circuits and operational amplifier circuits. Applications include determining amplifier and filter gain and frequency response, measuring differential amplifier performance, investigating feedback principles, and implementing oscillator circuits.

ECET 3000:Electrical Principles

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L)

Covers basic circuit theory including the ac and dc characteristics of resistors, capacitors and inductors as used in elementary single and three-phase circuits. Characteristics of basic industrial electric motors and single and three-phase connections are studied. Basic factory automation is covered including sensors, relay control and programmable logic controllers. Laboratory exercises supplement the material discussed in class. This course cannot be used for credit by CpET or EET majors.

ECET 3020:Biomedical Instrumentation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

ECET 2310 **Corequisite:** ECET 3020L

An introduction to biomedical instrumentation principles, design, measurement and analysis techniques. This course provides an overview of typical biomedical instruments used in the field. Topics include the acquisition and analysis of biomedical signals, a study of medical diagnostic instruments and equipment; monitors, intensive care units, coronary care units, operating room equipment, telemetry systems, ECG machines, life support equipment, respiratory instrumentation, brain monitors, medical ultrasound, electro-surgery units, and hemodialysis machines.

ECET 3020L:Biomedical Instrumentation Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

ECET 2310 and ECET 3020

In this course students will apply engineering design principles to assigned team-based design projects. Topics include the acquisition and analysis of biomedical signals, biomedical instrumentation circuit design, circuit construction, biomedical data acquisition and measurements, biomedical data analysis, and debugging of biomedical instrumentation circuits. The application of analytical and simulation tools in the study of biomedical diagnostic instruments and equipment will be emphasized.

ECET 3220:Digital III

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 2210 and ECET 2310

The student will design a single board computer (SBC) incorporating standard components such as RAM, ROM, address decode, and input/output devices such as keyboards and LCD displays. A complete software monitor system will be developed for the SBC utilizing industry standard development tools. One of the major objectives of this class is to provide an environment within which the student can experience a complete industry-like project development cycle. This cycle will include the design, development, construction and test of the project. Advance I/O topics will also be covered including ADC and DAC operation and interfacing.

ECET 3398:Internship

1 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: Department Chair Approval.

This course is a structured experience that is related to Electrical and Computer Engineering Technology, in a supervised setting with an industry partner. The goal is for students to enhance their academic classroom skills with practical experiences in a real-world environment. Supervision of the Intern is shared by the working environment supervisor and a faculty advisor.

ECET 3400:Data Communications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310, and either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Corequisite:** ECET 3400L

This course is a survey of data communication topics. The OSI and TCP/IP protocol models are covered, with emphasis placed on protocols associated with the lower layers. Concepts include synchronous and asynchronous transmission, line codes, signaling, effects of bandwidth and noise, and digital and analog modulation. Error detection and correction are also covered. Other areas studied include analog-to-digital conversion, multiplexing, circuit and packet switching, and network topologies.

ECET 3400L:Data Communications Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310, and either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Concurrent:** ECET 3400

Students simulate and measure the bandwidth properties of signals and the effect of noise on signal quality. Eye patterns and signal constellations are created and measured. Synchronous transmission techniques are examined.

ECET 3410:High Frequency Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310 and either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Corequisite:** ECET 3410L

This course is a study of electronic signal transmission systems. It includes an analysis of transmission lines with a concentration on their fundamental principles, specifications, operation and practical applications. The course also includes the study of the fundamental principles of waveguides, and wireless and fiber-optic communications.

ECET 3410L:High Frequency Systems Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310 and either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Concurrent:** ECET 3410

Students measure the performance of electromagnetic transmission system elements including transmission lines, waveguides, and components. Matching networks are designed with Smith charts, simulated, and analyzed.

ECET 3500:Survey of Electric Machines

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2111 and ECET 2111L **Corequisite:** ECET 3500L

This course is a survey of electric machine topics, focusing on the characteristics and applications of basic electric machinery. It introduces classical electromagnetism and magnetic circuits as the basis for electromechanical energy conversion and machine operation. Single-phase and three-phase transformers are covered, along with three-phase and single-phase induction machines, DC machines, and synchronous machines, with emphasis placed on their operational characteristics and modeling.

ECET 3500L:Survey of Electric Machines Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2111 and ECET 2111L **Concurrent:**
ECET 3500

This lab course supports the ECET 3500 Survey of Electric Machines course. Students will set-up, operate, measure the operational characteristics, and evaluate the performance of a variety of machines including transformers, induction machines, DC machines, and synchronous machines.

ECET 3600:Test Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2210 and ECET 2310 **Corequisite:** ECET 3600L

This course is an introduction to test engineering principles with an emphasis on computer-controlled instrumentation and acquisition using a communication interface. Application software will be written in LabVIEW to automatically test devices using GPIB/VISA test equipment. BIST, MTBF, Boundary scan testing, instrumentation, instrumentation automation, ISO 9000, TQM, usability, and other related test engineering topics will also be covered.

ECET 3600L:Test Engineering Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2210 and ECET 2310 **Concurrent:**
ECET 3600

This course involves extensive use of LabVIEW for simulation and interfacing to test instruments in the lab. Students learn how to program in LabVIEW and they design an automated test and measurement system.

ECET 3620:Signals and Systems Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310, ECET 2310L, and MATH 2306 **Corequisite:** ECET 3620L

This course presents the analysis of continuous- and discrete-time signals occurring in circuits and systems containing linear and nonlinear elements. Methods include graphical techniques, Laplace transform, Fourier analysis, convolution, and difference equations. Topics regarding communication systems, Bode plots for transfer functions, classical filter responses, and practical second-order filter designs are also presented. An introduction to discrete-time systems including sampling theory is provided covered.

ECET 3620L:Signals and Systems Analysis Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310, ECET 2310L and MATH 2306 **Concurrent:**
ECET 3620

This lab develops the analysis of continuous- and discrete-time signals occurring in circuits and systems containing linear and nonlinear elements. Methods include graphical techniques, Laplace transform, Fourier analysis, convolution, and difference equations. Topics regarding communication systems, Bode plots for transfer functions, classical filter responses, and practical second-order filter designs are also presented. An introduction to discrete-time systems and sampling theory is included. MATLAB is used in conjunction with all laboratory exercises.

ECET 3640:Introduction to Systems Engineering and Robotics

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 2310

This course will introduce students to the general principles of Systems Engineering through the development of an actual robotic systems. When completed, each student will understand the basic elements of system engineering design including requirements analysis, functional decomposition, subsystem decomposition, risk analysis, physical and logical interface specification, physical modeling, simulation, and life cycle planning.

ECET 3701:Embedded Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310 and (ECET 3710 or ECET 3810) **Corequisite:** ECET 3701L

Introduction to the programming and interfacing of embedded systems. Programming will introduce a high-level object-oriented language and explore concepts such as multithreading and industry standard resource management/sharing mechanisms. Programming will focus on low-level hardware interfacing via standard GPIO and a variety of serial communication protocols. The class will also explore the use and application of statistical analysis.

ECET 3701L:Embedded Systems Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310 and (ECET 3710 or ECET 3810) **Concurrent:**
ECET 3701

This laboratory course supplements ECET 3701. The initial part consists of a series of weekly labs designed to familiarize students with the target hardware and programming language used in the course. Later labs increase in complexity and target embedded concepts such as timers and multi-threading. The end of the term culminates in a group project where teams develop a complex embedded system.

ECET 3710:Hardware Programming and Interfacing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 1200 and ECET 2300 **Corequisite:** ECET 3710L

This course will teach students the fundamental concepts of hardware programming and interfacing using abstract programming language(s) and several interfacing technologies commonly used in microcontroller design. In addition to learning basic design and interfacing techniques, other skills such as writing pseudo code, developing C/C#-based applications, and applying statistical analysis will be explored.

ECET 3710L:Hardware Programming and Interfacing Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 1200 and ECET 2300 **Concurrent:**
ECET 3710

The laboratory component of ECET 3710 is designed to provide the student with hands-on experience in the fundamental concepts of hardware programming and interfacing using abstract programming language(s) and several interfacing technologies commonly used in microcontroller design. Lab exercises are oriented around a popular microcontroller and associated peripheral devices.

ECET 3810:Applications of C++, JAVA and HTML

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 1012 **Corequisite:** ECET 3810L

A study in the applications of several key programming environments. This course covers such topics as: data types, structures, functions, arrays, file input/output, system calls, data portability, security and Internet related topics as they pertain to the appropriate programming language.

ECET 3810L:Applications of C++, Java, and HTML Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 1012 **Concurrent:**
ECET 3810

The laboratory component of ECET 3810 is designed to provide the student with hands-on experience in the fundamental concepts and techniques of object-oriented programming (OOP) using abstract programming language(s). Lab exercises are based on modern programming principles and practices.

ECET 4020:Biomedical Imaging

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Concurrent:**
ECET 2310, and ECET 2310L **Corequisite:** ECET 4020L

An introduction to the principles of the major imaging equipment including x-ray radiology, x-ray

computed tomography (CT), ultrasonography and magnetic resonance imaging (MRI). Includes a discussion of other emerging imaging technologies such as nuclear imaging (PET and SPECT).

ECET 4020L:Biomedical Imaging Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Concurrent:** ECET 2310, ECET 2310L, ECET 4020

This course provides laboratory exercises to reinforce theoretical concepts presented in the ECET 4020 lecture. The course expands on the application of image processing techniques to the processing and analysis of acquired biomedical images from various types of major imaging equipment such as x-ray radiology, x-ray computed tomography (CT), ultrasonography and magnetic resonance imaging (MRI).

ECET 4040:Biometrics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 2332 **Concurrent:** ECET 2310, and ECET 2310L **Corequisite:** ECET 4040L

An introduction to biometric recognition systems, which utilize the physiological and/or behavioral characteristics of an individual for identification. Students study the design of various biometric systems based on fingerprints, face, iris, voice, hand geometry, palmprint, retina, and other modalities. The performance of biometric systems and security-related issues of these systems are discussed. Multimodal biometric systems using two or more of the above human characteristics are also discussed.

ECET 4040L:Biometrics Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: STAT 2332 **Concurrent:** ECET 2310, ECET 2310L, and ECET 4040

This course provides laboratory exercises to reinforce theoretical concepts presented in the ECET 4040 lecture. The course expands on the application of biometric recognition systems, which utilize the physiological and/or behavioral characteristics of an individual for identification. Students will design and analyze various biometric systems based on fingerprints, face, iris, voice, hand geometry, palmprint, retina, and other modalities.

ECET 4320:Active Filters

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310, and ECET 2310L **Corequisite:** ECET 4320L

This course is a study of the characteristics, analysis, and practical topologies of active filters. The state-variable Sallen-Key topologies are emphasized. Popular filter responses including Butterworth, Chebyshev, Bessel, and Cauer (elliptic) are studied. Delay sensitivity, frequency scaling, impedance scaling, determination of pole-zero locations, and transfer function transformations are studied. Filter

synthesis techniques are presented. An introduction to switched-capacitor and digital filters is also included.

ECET 4320L:Active Filters Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310 and ECET 2310L **Concurrent:**

ECET 4320

This course reinforces theoretical concepts presented in the ECET 4320 lecture. Students will design, simulate, construct, and analyze various second-, third, and fourth-order active filter systems. The state-variable Sallen-Key topologies are emphasized. Popular filter responses including Butterworth, Chebyshev, Bessel, and Cauer (elliptic) are studied. Delay sensitivity, frequency scaling, impedance scaling, determination of pole-zero locations, and transfer function transformations are examined.

ECET 4330:Audio Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2210, ECET 2210L, ECET 2310 and ECET 2310L **Corequisite:** ECET 4330L

The fundamentals of specifications, standards, devices, circuits and systems used in audio are studied. Acoustics, power amplifiers, pre-amplifiers, frequency contouring circuits, signal processors, microphones, loudspeakers and sound reinforcement systems are covered.

ECET 4330L:Audio Technology Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2210, ECET 2210L, ECET 2310, and ECET 2310L **Concurrent:**

ECET 4330

This course reinforces theoretical concepts presented in the ECET 4330 lectures. Topics include the standards, characteristics, design, analysis, and practical implementation of devices, circuits and systems used in audio. Acoustics, power amplifiers, pre-amplifiers, frequency contouring circuits, signal processors, microphones, loudspeakers and sound reinforcement systems are covered. The application of computer based simulation software and computer-aided testing to lab exercises and an audio project are emphasized.

ECET 4420:Communications Circuit Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310 and either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L) **Corequisite:** ECET 4420L

This course examines radio frequency communications circuits and their applications. Receiver and transmitter circuits such as amplifiers, oscillators, modulators and demodulators are studied. Spectral analysis is introduced and the effects of noise in communications systems is investigated.

ECET 4420L:Communications Circuit Applications Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310, either (PHYS 2212 and PHYS 2212L) or (PHYS 1112 and PHYS 1112L)

Concurrent:

ECET 4420

Students simulate, build, and test circuits used in communications systems. These include amplifiers, oscillators, mixers, filters, and matching networks.

ECET 4431:Wireless Communications Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 3410 **Corequisite:** ECET 4431L

This course integrates topics involving antennas, electromagnetic propagation, and digital communications to investigate point-to-point radio frequency communication systems. Topics include: radiation patterns, directivity, polarization, antenna types, path-loss models, knife-edge diffraction, link-budget analysis, superheterodyne receivers, digital modulation/demodulation, system performance enhancements, multiple-access techniques, and duplexing techniques. Applications to terrestrial, satellite, and cellular communications are included.

ECET 4431L:Wireless Communications Systems Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 3410 **Concurrent:**

ECET 4431

This course provides laboratory experiences to complement ECET 4431 Wireless Communications Systems. Most of its activities center around a design-build-test-report antenna project, but other exercises will also be completed, including at least one employing antenna simulation.

ECET 4490:Special Topics

1-3 Class Hours 0-3 Laboratory Hours 1-4 Credit Hours

Prerequisite: Department Chair approval

This course covers advanced topics of special interest to faculty and students that are not in the regular course offerings. Offered on a demand basis. This course may be taken more than once.

ECET 4510:Power System Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2111, and ECET 2111L **Corequisite:** ECET 4510L

This course involves the analysis of power systems starting with the calculation of line resistance, line inductance, and line capacitance of power transmission lines. These parameters are used to model power systems in order to derive the bus impedance matrix, perform network calculations and analyze systems for symmetrical and unsymmetrical faults.

ECET 4510L:Power System Analysis Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2111 and ECET 2111L **Concurrent:**

ECET 4510

In this course, the transmission line parameters are used to model power systems in order to simulate power system's operating characteristics and analyze the systems for symmetrical and unsymmetrical faults. The main activity consists of problem solving and involves the solution of network problems using computer simulation and analysis software.

ECET 4515:Power Distribution Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 3500 **Corequisite:** ECET 4515L

A detailed study of the segment of the electric power system between bulk power sources and customer service drops, including subtransmission circuits, distribution substations, primary feeders, distribution transformers, and secondary circuits. Methods of analysis and design are applied to topics such as load characteristics, voltage drop, power loss, capacitor applications, voltage regulation, and system protection.

ECET 4515L:Power Distribution Systems Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 3500 **Concurrent:**

ECET 4515

This course uses power system simulation software as an environment for laboratory exercises that complement ECET 4515 Power Distribution Systems. Models are developed for various system configurations and used to examine, evaluate, or enhance system performance.

ECET 4520:Industrial Distribution Systems, Illumination, and the NEC

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 3500 and (ECET 2110 or ECET 2111)

This introductory design course involves the lighting, wiring and electrical protection systems in commercial and industrial buildings. This course will cover: lighting fundamentals, light sources, lighting system layouts for interior spaces, protection of electrical systems, fuses, circuit breakers, instrument transformers and protective relays, grounding and ground-fault protection, feeder design and branch circuits for lighting and motors. This course will include projects - designing lighting and wiring systems for commercial/industrial buildings.

ECET 4530:Industrial Motor Control

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (ECET 2111 and ECET 3500) or ECET 3000

This introductory design course is a study of manual and automatic, starters and controllers of ac and dc motors. The course will concentrate on three-phase induction motor starters and controllers with

some study of dc motor starters and controllers. The induction motor coverage will include both full-voltage and reduced voltage techniques, with the emphasis on the reduced voltage methods. Line impedance, auto-transformer, wye-delta and part-winding starters will be included. The laboratory will consist of several projects in designing, testing and demonstrating various motor starters and controllers. The designs will require using Programmable Logic Controllers in the projects. The course will conclude with variable frequency drives.

ECET 4540:Introduction to Power Electronics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310 and ECET 3500 **Corequisite:** ECET 4540L

This course introduces the devices, circuits, and systems utilized in power electronics. An overview of power semiconductors: switching diodes, thyristors, gate turn-off thyristors, insulated gate transistors, MOS-controlled thyristors, and other controllable switches. Power electronic circuits such as uncontrolled and phase controlled dc converters, DC to DC switch mode converters, DC to AC switch mode inverters, and their application in motor drive, speed control, and power supplies are included.

ECET 4540L:Introduction to Power Electronics Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310 and ECET 3500 **Concurrent:**
ECET 4540

This laboratory course reinforces concepts from ECET 4540 lectures, which extend concepts of electronic components and circuits from ECET 2300 and ECET 2310. Students document experimental results in formal reports, which are evaluated based on completion, format, and data accuracy. Students become proficient in working with DC to DC switch mode converters, DC to AC switch mode inverters, and their application in motor drive, speed control, and power supplies.

ECET 4560:Electric Drives

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 3500 and ECET 4610

This course covers basic AC/DC electric-machine drives for speed/position control. It presents an integrated discussion of electric machines, power electronics, and control systems. Computer simulations are used for understanding power-electronics based converters and the design of feedback controllers. Applications of electric drives can be found in electric transportation, robotics, process control, and energy conservation.

ECET 4610:Control Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2310, ECET 2310L, and MATH 2306 **Corequisite:** ECET 4610L

This course is a study of feedback control systems theory including practical applications of compensation and PID concepts. Control system modeling, transient and steady state characteristics, stability and frequency response are analyzed. Compensation and controller design using Root locus

methods are covered. The use of control system software, such as MATLAB, in the analysis and design of control systems is emphasized.

ECET 4610L:Control Systems Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 2310 , ECET 2310L , and MATH 2306 **Concurrent:**

ECET 4610

This lab course complements the ECET 4610 lectures. Students investigate feedback control systems including practical applications of compensation and PID concepts. Control system modeling, transient and steady state characteristics, stability and frequency response are analyzed. Compensation and controller design using Root locus methods are covered. The use of MATLAB in the analysis and design of control systems is emphasized. MATLAB is used in conjunction with all the laboratories.

ECET 4630:Digital Signal Processing

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 2310, ECET 3220, and MATH 2306

An introduction to the concept of discrete and digital signals and systems. Difference equations, Discrete Fourier Transforms (DFTs), Fast Fourier Transforms (FFTs), Z-Transform techniques, IIR filter design, and FIR filter design are covered. An introduction to the architecture, assembly language and application examples of general and special purpose microprocessors such as the TMS 320 and DSP56000 families is included.

ECET 4720:Distributed Microcontrollers and PCs

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 3220

A study of networked PIC microcontrollers connected to a host PC or several networked PCs. Two popular versions of various microcontroller architectures will be discussed. Software will emphasize both assembly language programming and ANSI C programming. Hardware will emphasize the bus interconnections between the devices such as RS232/RS485, I2C, CAN, SPI, etc. Example Real Time Operating Systems (RTOS) for microcontrollers is introduced as well. Development of a capstone project, through the design of a printed circuit board is also included.

ECET 4730:VHDL and Field Programmable Gate Arrays

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (ECET 2111 or ECET 2110) and ECET 2210

Provide a thorough introduction to the Virtual Hardware Description Language (VHDL) and apply this knowledge to Field Programmable Gate Arrays (FPGA's). Current applications will be presented and students will design, develop, test and document complete FPGA based designs. The use of schematic capture tools for configuring FPGA's will also be covered.

ECET 4820:Communications Networks and the Internet

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 3400 **Corequisite:** ECET 4820L

This course covers the fundamental concepts, operational characteristics, and design principles of digital networks. The course focuses on local-area and wide-area network topologies and protocols that are used in the Internet. Topics include: TCP/ IP protocol, Internet standards, routing and switching devices, Internet organization, Ethernet and virtual LANS, MPLS, and an overview of aspects of computer network operating systems related to networking.

ECET 4820L:Communications Networks and the Internet Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 3400 **Concurrent:**

ECET 4820

This laboratory course will teach students how to design, configure and implement computer network systems based on modern communication devices such as routers, switches, and bridges. Students will work with the protocols and devices used in local area networks and the Internet and will capture and analyze data traffic in order to analyze communications protocol functions.

ECET 4840:Advanced Telecommunications

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 2210, ECET 4820, and ECET 3810

A study investigating several advanced telecommunications technologies and techniques. Course covers such topics as: data transmission principles, time and frequency domain concepts, Fourier signal analysis, transmission impairments (delay distortion, noise), channel capacity, sampling and quantization, routing and switching theory, routing algorithms and protocols, high-speed networking technologies, queuing theory, congestion control mechanisms, mobile and residential broadband systems, wireless technologies, network security techniques and implementation, and emerging technologies (IPv6, 3G and 4G networks).

ECET 4860:Network Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 3400, and ECET 3400L **Corequisite:** ECET 4860L

This class teaches the fundamental concepts of network security including symmetric and asymmetric encryption techniques, key distribution systems, authentication mechanisms, IP security, web security, email security, intruders, and malicious software.

ECET 4860L:Network Security Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ECET 3400 and ECET 3400L **Concurrent:**

ECET 4860

This lab course complements the ECET 4860 lectures. Students investigate the fundamental

concepts of network security including symmetric and asymmetric encryption techniques, key distribution systems, authentication mechanisms, IP security, web security, email security, intruders, and malicious software.

ECET 4900:Senior Capstone Design Project

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: Senior standing, Instructor approval, Department Chair approval

This course provides comprehensive design experience for students working in small groups. The course is a culmination of the undergraduate Electrical and Computer Engineering Technology education. Topics covered include: design specifications, evaluation of design alternatives, technical reports and oral presentations. Also covered are topics such as intellectual property, industry standards and conventions, engineering economics, reliability, safety, engineering ethics and current topics in the field of electrical and computer engineering technology.

Electrical Engineering

EE 1000:Foundations of Electrical Engineering

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Electrical Engineering Major

This course provides an introduction to Electrical Engineering and to SPSU including an introduction to the EE faculty, an overview of career opportunities, available campus facilities, student organizations, etc. Some of the skills necessary to EE students will also be introduced. These include: writing formal lab reports, preparing a speech, drafting a winning resume, learning basic computer skills, and a research project.

EE 2290:Special Topics

1-6 Credit Hours

Special Topics course for Electrical Engineering majors.

EE 2301:Circuit Analysis I

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: PHYS 2211 and PHYS 2211L

This course introduces basic circuit analysis including resistive circuits, voltage and current sources, analysis methods, network theorems, energy storage elements, and AC steady-state analysis. Techniques for analyzing resistive networks are heavily emphasized. In addition, the physical mechanisms of capacitance and inductance are examined along with analysis of transient responses in circuits containing resistors, capacitors, and inductors. Laboratory exercises reinforce the theoretical concepts presented in class and provide various opportunities to become proficient with standard instrumentation used in electrical engineering.

EE 2302:Circuit Analysis II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2301, MATH 2306 and PHYS 2212

A continuation of basic Circuit Analysis I which focuses on RC, RL, and RLC circuits, mutual inductance, series and parallel resonance, two-port networks frequency response, AC power including power factor correction, as well as three phase circuits. Simulation is heavily emphasized using state of the art software such as PSPICE.

EE 2305:Electronic Circuits and Machines

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: PHYS 2212

This course covers the electrical characteristics of fundamental circuit components including resistors, capacitors and inductors in DC circuits, single-phase AC and three-phase AC circuits. Fundamental concepts of AC power and phasors are examined. The course also introduces the devices that generate and transform electrical power, as well as switching and protection of electrical circuits. Practical applications of motors, generators, transformers and operational amplifiers will be covered to provide non-electrical engineering majors a comprehensive understanding of electro-mechanical systems.

EE 2401:Semiconductor Devices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1211, CHEM 1211L and EE 1000

This course effectively applies the knowledge of chemistry and physics to understand the operating principles of various semiconductor devices. The course covers topics starting from the fundamental concepts of atomic and crystal structure, crystal growth, impurity doping and energy bands to the in-depth device operation and quantitative analysis of p-n junction diode, metal-semiconductor contacts and Schottky diode, BJTs and MOSFETs. Also fundamental operating principles of optoelectronic devices such as, LEDs and photodiodes are discussed. Simple device simulation components reinforces the understanding of various critical aspects of device operation. The course concludes with an experiment-based project on device characterization where students perform analysis on the experimentally acquired data to extract various important device parameters.

EE 2501:Digital Logic Design

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2301

This course is a study of digital circuit fundamentals with an emphasis on combinational and sequential logic design, Boolean algebra and switching theory, logic simplification and implementation using standard digital IC's of various logic families and programmable logic devices. A significant emphasis is placed on the study of digital design principles with emphasis on the use of LSI, MSI, and SSI circuits in the application and design of complex digital systems with a detailed examination of CMOS and TTL at the transistor level. Laboratory exercises reinforce theoretical concepts presented in the lecture utilizing an industry standard micro controller.

EE 3398: Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Engineering standing, EE 2302, and (EE 2501 or EE 3401) and permission of the Instructor.

This course is a structured experience that is related to Electrical Engineering, in a supervised setting with an industry partner. The goal is for students to enhance their academic classroom skills with practical experiences in a real-world environment. Supervision of the Intern is shared by the working environment supervisor and a faculty advisor.

EE 3401: Engineering Electronics

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2301

This course introduces the basic circuits used in analog signal processing systems. The primary focus will be on studying bias circuits and small signal models for diodes, BJTs and MOSFETs. In addition, functional circuits including diode rectifiers, logic circuits, and basic amplifier circuits using single transistors are discussed. A brief introduction to op-amps as signal processing blocks is included. Students put their analog circuit theory into practice in the laboratory.

EE 3405: Electronic Materials

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2401 or may be taken concurrently

This course focuses on the study of important properties of materials (such as electronic properties, thermal properties, magnetic properties, dielectric properties, optical properties, crystallographic and electronic defects) which play important role in the device operation and are engineered for various electrical engineering applications. The course covers topics starting from the elementary materials science concepts and fundamental quantum mechanics to modern device applications including superconductors, supercapacitors, piezoelectricity, magnetic and optical data storage technologies, communication via optical fiber etc. Also the course includes various measurement techniques to probe electronic, crystallographic, and structural properties of materials including resistivity and Hall effect measurements, X-ray diffraction, electron microscopy, and atomic force microscopy. Device design and fabrication aspects are discussed in correlation with the material properties. The core knowledge obtained in this course are applicable to a wide range of areas within electrical engineering discipline, such as Photonics, Semiconductors & Microelectronics, Nano-scale electronics, Electric Machine Design & Electromagnetics etc.

EE 3501: Embedded Systems

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2501 and Engineering Standing

An introduction to microcontrollers and integrated microprocessor systems. Emphasis is placed on the Intel 8051 and Motorola 68HC11 families and derivatives. Hardware/software trade-offs, system economics and functional configurations are examined along with serial and parallel communications, watchdog timers, low power operation, and assembly language programming techniques. The

architecture of design of sampled data systems is explored using case studies of representative applications.

EE 3601:Electric Machines

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2301 and Engineering Standing

The study of the fundamentals of electro-mechanical energy conversion, magnetic circuits and electromagnetic devices, theory of operation and operating characteristics of transformers, DC machines, AC induction and synchronous machines and stepper motors.

EE 3602:Electric Power Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2302, and Engineering Standing

This course introduces students to topics such as: AC power systems, power system networks, power flow analysis; short-circuit analysis, transient stability analysis, and computer simulation of power systems. Moreover, field trip(s) will be made to centers operated by utilities and/or power-related companies.

EE 3603:Electronic Power Conversion

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing and EE 2302

This course introduces students to the following: Power electronic devices; Power electronic circuits; Applications; Modeling, analysis and simulation using various software. Students will also perform experiments on various power converters to learn practical skills, and relate theory to real-world practice.

EE 3605:Electromagnetics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 2212, PHYS 2212L and MATH 2203 and Engineering Standing

An advanced treatment of static electric and magnetic fields and their sources, Poisson and Laplace equations and boundary value problems, time-varying electromagnetic fields and Maxwell's equations. Plane wave propagation in free space and in materials is examined.

EE 3701:Signals and Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2302 and Engineering Standing

This course explores discrete and continuous-time systems analysis, with emphasis on linear time-invariant (LTI) systems, the classification of continuous-time systems, convolution and its application to LTI systems and analysis of LTI systems via the Laplace transform, Fourier transform, and Fourier series.

EE 3702:Communication Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 3701 and Engineering Standing

Amplitude modulation, frequency and phase modulation and demodulation techniques are examined. Bandwidth and power considerations, noise in communication systems, signal analysis and transmission are included as are noise and probability aspects of communication systems and practical communication systems.

EE 3706:Computer Networking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2501 and Engineering Standing

The main goal of this course is to introduce students to the fundamentals of computer network architecture and network protocols. Topic includes OSI Model, TCP/IP, routing protocols, link layer techniques and network security. Students will read related research papers and work on their group projects, which will solidify the foundation of their knowledge through the real-world implementation of their new ideas in network simulators or test-beds.

EE 4201:Control Systems

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: Engineering Standing , and EE 2301, and MATH 2306.

The focus of this course is a study of feedback control systems theory including practical applications of compensation and P,PI, and PID concepts. Control system modeling, transient and steady state characteristics and response, stability and frequency response are analyzed; Compensation and controller design using Root locus methods are covered. The use of control system software, such as MATLAB, in the analysis and design of control systems is emphasized.

EE 4400:Directed Study in Electrical Engineering

Variable 1 to 4 credit hours Credit Hours

Prerequisite: Approval of instructor and department chair

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. A Directed Study may include original research projects and/or practicum experiences. Repeatable two times for credit.

EE 4405:Fundamentals of Solar Power and Renewable Energy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2301 **Corequisite:** EE 2401

This course reviews various renewable energy systems to meet the increasing global energy demand of the 21st century in a sustainable manner. Different renewable energy technologies including Solar, Wind, Hydroelectric, Ocean Waves, Tidal, Geothermal, and Biomass energy are discussed. Students will learn the fundamental and quantitative principles of these renewable technologies. The course puts a major emphasis on the various Solar Photovoltaic (PV) technologies to harvest solar energy by

direct conversion into electrical energy. The course covers from the fundamental principles of solar cells to in-depth discussions on 1st generation Si cells, 2nd generation thin-film cells, and emerging 3rd generation high-efficiency PV technologies. The course concludes with a real-world project where students effectively apply their knowledge to perform current-voltage measurements on solar cells, extract important electrical parameters of the device, and design a stand-alone photovoltaic system.

EE 4490:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Special topics course for Electrical Engineering majors.

EE 4603:Electric Drives

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2302, and Engineering Standing. **Concurrent:**

EE 3601 **Corequisite:** None

This course enables the student to analyze and design basic AC and DC electric motor drives used for speed/position/torque control, based on the proper integration of electric machines, power electronics, and control systems.

EE 4605:Electromagnetic and Microwave Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 3605 and Engineering Standing

In this course students will develop an understanding of the fundamental concepts of propagation, waveguides and radiation of electromagnetic waves. Students will apply basic electromagnetic concepts to the design of transmission lines, antenna systems, radars, and satellite communication.

EE 4701:Professional Practice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 3401 and Engineering Standing

This course covers the historical, social and economic considerations of the electrical engineering discipline. It includes studies of professional conduct, risks, and liabilities, and intellectual property relative to the electrical engineering profession. Electrical Engineering case studies will be used. Further the study of professional ethics, electrical code fundamentals (i.e. NEC), laws governing the practice of electrical engineering, contractual relationships, the licensure process for professional engineers are all undertaken in this course.

EE 4705:Digital Signal Processing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 3701

This course explores discrete signal processing including concepts of digital signal processing. Primary application domain targeted is speech signals although other signal types will also be considered, including vibration signals, music signals etc. We will cover core concepts of signal

processing including classification of discrete-time systems, convolution and its application to LTI systems and analysis of LTI systems via the Z transform, Fourier transform, and Fourier series, Discrete Time Fourier Series and Transform, Discrete Fourier Transform and Fast Fourier Transform. This course will also explore applications like Filter Design and Systems Analysis. Software simulations will emphasize the applied components of the course using MATLAB / SIMULINK programming and perform project on Speech Processing. Students will also be participating in written and oral presentation.

EE 4706:Image Processing and Pattern Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EE 2301

This course is designed to be an introductory course to the world of Computer Vision for the undergraduate electrical engineering students. It will introduce the students to two critical areas of Computer Vision, namely, Image Analysis and Pattern Analysis. The course will cover techniques and tools for digital image processing, and finally also introduce image pattern analysis techniques in the form of image segmentation and object tracking. The course is primarily meant to develop on-hand experience in applying these tools to process these images. Hence, the programming assignments form a key component of this course. Emphasis will be to develop engineering skills and intuitive understanding of the tools used in Image Processing and Pattern Analysis.

EE 4800:Senior Project

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: EE 4701 and Engineering Standing

This course is designed to be the culmination of the undergraduate electrical engineering education. Under the guidance of the professor, students will form small design teams, choose a proposed or ongoing project and research and redesign the project. Working as independent teams with guidance from the lead professor the capstone projects will be completed and the results presented for review to a panel of faculty, students, and others such as staff and Industrial Advisory Board members.

Engineering

ENGR 1100:Survey of Engineering Applications from Mathematics

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1113 **Concurrent:**

or MATH 1190

The objective of this course is to increase student retention, motivation, and success in engineering through an application-oriented introduction to engineering mathematics. This course does not replace other math courses, but provides a survey of the most significant math topics used in the core freshman and sophomore-level engineering courses. These include basic descriptions of engineering applications using algebraic manipulation of engineering equations, trigonometry, vectors and complex numbers, systems of equations and matrices, differentiation, integration and differential

equations. All these fundamental math topics will be presented within the context of engineering applications, and reinforced through examples of their use in the core engineering courses.

ENGR 2214:Engineering Mechanics - Statics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 2211, and PHYS 2211L

This course studies the force vectors, equilibrium of particles, equilibrium of rigid bodies in two and three dimensions; trusses, friction, centroids and moments of inertia.

ENGR 2500:Solid Mechanics & Materials

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: See advisor for prerequisite.

This course is made of two distinct parts. The first part of the course is a study of stress and strain of deformable bodies in tension, compression, bending, and torsion. Topics covered include: axial stress and strain; thermal stress and strain; statically indeterminate systems; torsional stress and strain; bending stresses in beams; beam deflections; combined stresses; and finite element analysis methods. The second part of the course is a study of metals and alloys, ceramics, polymers, and composites as related to design. Areas include corrosion, atomic structure, mechanical properties, fatigue, and the effects of alloying, hot- and cold-working and heat treating. The lab work includes tensile testing, heat treating, impact testing, hardness testing, and corrosion.

ENGR 2710:Engineering Calculations

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 2202

This course will focus on the fundamentals of linear algebra as applied to electrical, mechanical, and mechatronic engineering applications. Students will be introduced to the fundamentals of state-space theory of linear systems, and to apply the theory to the modeling, analysis, and design of real-world systems. The student should be able to complete calculations by hand for small problems, or by using Matlab for larger problems.

ENGR 3122:Engineering Mechanics - Dynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 and MATH 2202

A study of the mechanics of particles and rigid bodies. Topics covered include: kinematics and kinetics of particles; work and kinetic energy; impulse and momentum; rigid body motions; relative motion; and moving coordinate systems.

ENGR 3125:Machine Dynamics and Vibrations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ME 1311 or (CSE 1321 and CSE 1321L)) and ENGR 3122 and Engineering Standing

The analysis of motion, velocity, acceleration, and forces in mechanisms and machines. Emphasis is

placed on the analytical methods suitable for computerized analysis as well as graphical methods for visualization and preliminary design studies. Also an introduction to vibration theory, including the modeling and analysis of oscillatory phenomena found in linear discrete and continuous mechanical systems.

ENGR 3131:Strength of Materials

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ENGR 2214) and MATH 2202

The study and mathematical modeling of the mechanical behavior of materials under load. Emphasis will be on the elastic conditions of equilibrium, compatibility and material behavior. Includes study of stress and strain in columns, connectors, beams, eccentrically-loaded members, as well as introduction to statically indeterminate members.

ENGR 3132:Strength of Materials Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ENGR 3131 may be taken concurrently

The study and performance of laboratory testing and analysis techniques used in the determination of the mechanical behavior of materials under load.

ENGR 3250:Project Management for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and Engineering Standing

This course is a comprehensive study of project concepts, such as project definitions, systems and methodologies, project cycles, roles and responsibilities of leaders and members, and procedures used in industrial and production environments. Topics include such areas as scheduling, controlling projects, time-cost trade-off, resource allocation and project cost control.

ENGR 3305:Data Collection and Analysis in Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202, CE 2003 and Engineering Standing

This course introduces probability theory and statistical analysis techniques for engineering applications. Major topics include probability and sampling distributions, conditional probability and Bayes' theorem, estimation of parameters, hypothesis test and statistical inference, and linear regression techniques. Students will apply basic statistical techniques to analyze various types of real world engineering data. Emphasis will be given to standard engineering practices. Computer software (e.g., spreadsheet programs) will be used.

ENGR 3324:Project Cost Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190, EDG 2160, and Engineering Standing

A study of the project cost measurement and analysis techniques unique to the engineering

profession. Cost analysis procedures and their relationship with cost estimation methodologies are examined. Emphasis is placed on techniques for economy studies of multiple alternatives, uncertainties in forecasts, increment costs, taxes, and retirement and replacement of highways, transportation systems, bridges and public works facilities. Current economic issues are also discussed.

ENGR 3325:Engineering Economic Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 and Engineering Standing

Students learn the time value of money and the basic tools used in engineering economic decision making. The tools include engineering factor notation, algebraic formulas, and Excel functionality. The time value effect is studied as equivalences for present worth, annual worth, or future worth evaluations. Useful algorithms are presented for making sound economic investment decisions involving replacement theory, risk analysis, depreciation, tax incentives, rate of return, cost benefit ratio, return on investment, and economic service life.

ENGR 3343:Fluid Mechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 and Engineering Standing

This course introduces the fundamentals of fluid statics and dynamics including hydrostatic forces on submerged plates, continuity of fluid flow and fluid flow principles. The applications of turbulent and laminar flow in conduits are emphasized. The system approach is practiced in analyzing the applications of flow measuring devices, pipings, pumps and turbines.

ENGR 3345:Fluid Mechanics Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ENGR 3343 (may be taken concurrently) and Engineering Standing

The laboratory reinforces the principles of fluid mechanics, studied in ENGR 3343, as they apply to hydraulic and pneumatic power, and fluid flow. Developing experimental data into effective laboratory reports is emphasized.

ENGR 3398:Experiential Engineering Internship

0 Class Hours 0 Laboratory Hours variable 3-12 audit hours, but 0 billing hours Credit Hours

Prerequisite: Enrolled students must be a SPCEET Undergraduate Engineering or Engineering Technology major (Civil Engineering, Computer Engineering, Construction Engineering, Electrical Engineering, Environmental Engineering, Industrial and Systems Engineering, Mechanical Engineering, Mechatronics Engineering, Mechanical Engineering Technology, Electrical Engineering Technology, or Industrial Engineering Technology)

Students are encouraged to enhance their coursework with engineering work experience. This is a noncredit/no-cost audit course with no tuition or fees attached. Students are eligible to receive full-time enrollment status through their registration, which allows them to retain all privileges of full-time

enrolled students while working. The course serves as a placeholder on a transcript. It does not fulfill major degree requirements.

ENGR 3410: Fundamentals of Biomedical Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

This course provides an extensive overview of the field of biomedical engineering. The fundamentals of various key topics that stand at the intersection of engineering, biology, and medicine will be investigated.

ENGR 3411: Biomechanics for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

This course will provide an introduction to the structural and mechanical behavior of biological tissues and systems by building on engineering concepts such as discussed in Statics, Dynamics, or Strength of Materials.

ENGR 3412: Biomedical Circuit Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

This course will provide an overview of instrumentation systems used in clinical medicine and biomedical research. Some circuit theory and its application to bioinstrumentation will be reviewed. Systems for measuring biologic signals, such as biopotentials, stress and strain, pressure, temperature, and optical properties, will be discussed. Electrical hazards, safety, measuring instruments and techniques will also be discussed. There will be applications to engineering design such as transducer systems and sensing and driving circuits. There will also be discussion of ethical and regulatory issues related to bioinstrumentation as well as review of instrumentation such as CT Scan, MRI, EKG, and EEG sensors.

ENGR 3501: Fundamentals of Nuclear Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202 and Engineering Standing **Concurrent:**

PHYS 2212 and PHYS 2212L

This course provides an overview of the nuclear sciences field. Topics covered include: basic nuclear physics, radioactivity and radioactive decay process, nuclear reactions, radiation detection, basic health physics, radiation protection, fission and fusion processes, neutron interaction, nuclear energy conversion, different nuclear reactors, reactor operations, reactor control and basic nuclear fuel cycle.

ENGR 3502: Radiation Detection & Measurement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3501 and Engineering Standing

The detection and measurement of radiation is an integral component of the nuclear sciences field. This course covers the sources and properties of nuclear radiation, mechanism of radiation interaction with matter, detection methods and in particular detection of ionizing radiation that are of primary interest in nuclear power generation as well as medical and industrial applications. Various types of radiation detectors, neutron detection techniques and counting statistics are also discussed.

ENGR 3801:Aerodynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202 & Engineering Standing

An introduction to aerodynamics; including circulation theory of lift, thin airfoil theory, viscous flow, boundary layer, finite wing theory, and drag in incompressible flow.

ENGR 3802:Aircraft Design & Performance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3801 and Engineering Standing

Airplane conceptual design principles are developed to meet modern aerodynamics, propulsion, structural, and performance specifications. This course examines the complete airplane design, including specifications, aerodynamic calculations, inboard profile drawing, weight and balance, general arrangement drawing, aerodynamic drag analysis, and complete performance report.

ENGR 3803:Fundamentals of Avionics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3801 & Engineering Standing

The primary topics of this course are related to the understanding of the principles, theory, and technology of modern avionic systems for both military and civil aircraft. Various subsystems including sensory, fly-by-wire control, display, navigation, air data, autopilots, and flight management are examined individually and as an integrated whole. Both mathematical and conceptual approaches to every subsystem will be taught as well as key considerations, such as flight safety, which undergird their usage and functionality.

ENGR 4402:Engineering Ethics

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Engineering Standing

This course looks at the practice of engineering in the context of ethics and ethical theory. Issues of safety, liability, professional responsibility, legal obligations are considered in the context of case studies. Particular emphasis is given to the application of the Professional Engineering Code of Ethics published by the National Society of Professional Engineers. Students will consider the resolution of ethical dilemmas through the development and evaluation of various courses of action related to specific case studies.

ENGR 4412:Air Conditioning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3410 and ENGR 3343

The basic principles of residential and commercial air conditioning systems are introduced including the calculation of cooling and heating loads, and psychrometric processes. The student is exposed to relevant topics in heating, ventilating and air conditioning (HVAC) such as equipment selection, duct design, piping design, indoor air quality, energy code, HVAC systems, energy conservation options, automatic controls, and testing, adjusting and balancing (TAB) of air conditioning systems.

ENGR 4490:Special Topics in Engineering

2-4 Class Hours 0 Laboratory Hours 2-4 Credit Hours

Prerequisite: Varies by topic

This course covers advanced topics of special interest to faculty and students that are not in the regular course offerings. Offered on a demand basis. This course may be taken more than once.

ENGR 4501:Nuclear Power Generation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3501 & Engineering Standing

This course covers the principles of nuclear energy conversion to electric power. The content of the course includes: fundamentals of energy conversion, fission reactors, design and construction of light water reactors with emphasis on boiling water and pressurized water reactors, gas cooled reactors, fast breeder reactors, thermal and structural analysis of reactors and plant components, safety elements and accident prevention systems. The economic feasibility of nuclear power plants will also be discussed.

ENGR 4502:Radiation Protection & Health Physics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3501 & Engineering Standing

This course covers the fundamentals of individual and population health protection against the harmful effects of radiation. Topics included are: different sources of radiation, interaction of radiation with matter, radiation exposure principles and measurement, relationship between radiation exposure and biological damage, radiation protection and safety standards and guidelines, radiation protection instrumentation, internal and external radiation protection, pathways of radiation movement in the environment and radiation shielding.

ENGR 4503:Nuclear Fuel Cycle

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3501 & Engineering Standing

The feasibility and operation of nuclear power plants is directly influenced by the availability of suitable nuclear fuel as well as acceptable methods of disposal of nuclear waste. This course covers the progression of the nuclear fuel through different stages of mining, milling, processing, enrichment,

fabrication and use in reactors, interim storage, reprocessing and disposal. The environmental impact of nuclear waste, economics of nuclear fuel cycle, challenges and solutions in management of radioactive waste and the prevailing regulations, standards and best practices are discussed.

ENGR 4504:Nuclear Reactor Simulation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 4501 and Engineering Standing

The objective of this course is to provide an understanding and knowledge about the operational aspects of a variety of nuclear power plant designs. The course integrates the previous studies in nuclear engineering and reactor power generation into safe design and operation of nuclear power plants. This course covers different reactor designs, normal operations and response to abnormal conditions and potential accident situations. Focus is placed on reactor physics fundamentals, defense in-depth, reactor start-up, normal ramp-up and operations, transient conditions, reactor feedback, reactor control, accident scenarios, and safe shut-down.

ENGR 4801:Aircraft Propulsion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3801 & Engineering Standing

This course involves preliminary design, subject to specifications, of an air-breathing engine for aircraft propulsion. This course discusses cycle calculations, installed performance and engine sizing information. Design and integration of components and support systems are explored. Propeller theory is introduced.

ENGR 4802:Helicopter Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3801 & Engineering Standing

The course is designed for students interested in helicopter theory as an application of large scale complex system. It presents a comprehensive introduction to rotorcraft technology, covering a range of disciplines from design, aerodynamics and propulsion points of view. It teaches what a helicopter engineer or enthusiast needs to know to analyze an existing design or participate in the development of a new one. The course covers all aspects of hover, vertical flight and forward flight.

ENGR 4803:Aeronautics Senior Design Project

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3802 & (ENGR 4801 or ENGR 4802) & Engineering Standing

The course focuses on the student completing a project that is related to the design of an aerospace vehicle and demonstrating comprehensive application of the subject matter. The general intent is to demonstrate the students' knowledge of the integrative aspects of the systems engineering process. There is a formal report and a defended oral presentation required before industrial and academic experts.

Engineering Design Graphics

EDG 1210:Survey of Engineering Graphics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course introduces the students to a broad range of engineering graphics topics. Freehand sketching, and computer-aided design (CAD) assignments cover theory and application in such areas as fundamentals of engineering graphics, drafting technique, lettering, orthographic projection, sectional views, pictorial drawings, dimensioning, and industry practices.

EDG 1211:Engineering Graphics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An introduction to engineering graphics in mechanical engineering and manufacturing with an emphasis on using computer-aided design (CAD) to produce finished engineering drawings according to industry and ANSI standards. Topics include fundamentals of engineering graphics, orthographic projection, sectional views, pictorial drawings, dimensioning, industry practices, file management, geometric construction, basic 3D coordinate geometry, surface models, parametric solid modeling, and drawing composition.

EDG 1212:Engineering Graphics II

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: EDG 1211

A continuation of Engineering Graphics I, covering advanced concepts of 3D geometry, parametric solid modeling, boundary representation of solids, databases for manufacturing and inspection, an introduction to geometric dimensioning and tolerancing according to the American National Standards Institute.

EDG 2160:Civil Graphics and Computer Aided Drafting

0 Class Hours 6 Laboratory Hours 3 Credit Hours

An introduction to graphic principles and practices in civil engineering technology. This course includes the development of the basic drafting skills needed to produce civil engineering plans and graphical presentations. The elements of descriptive geometry are addressed. A major component of the course is an introduction to the fundamentals of computer-aided drafting and design (CADD).

EDG 3112:Advanced Engineering Graphics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET majors or department approval, and EDG 1212

This course covers advanced 3D CAD features and solid modeling techniques including patterning, configurations, library features, sketch blocks, advanced assemblies, and multi-body parts. Students who complete this course are eligible for the SolidWorks CSWP exam.

EDG 4111:Surface Modeling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET majors or department approval, and EDG 1211

This course covers surface modeling in 3D CAD, combining surface modeling, solid modeling and creating master models. The student is introduced to complex solid modeling, free form surface modeling and surface analysis. Splines, curves and three-dimensional sketches are used in conjunction with surfacing techniques to create shapes common to the automotive or aircraft industry. The shapes are analyzed for surface continuity to optimize designs.

EDG 4222:CAD Customization and Standards

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET majors and or department approval, EDG 1212

This course covers topics in customizing CAD software and creating company standards. Topics include identifying company requirements, customizing the user interface, and writing company standards for the use of the software.

EDG 4224:Engineering Design Graphics for Custom Manufacturing

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: MET majors or department approval, and EDG 1212, and (MET 1321 or (MET 1400 and MET 1800)), and (MET 2322 or MET 2800)

Advanced 3D CAD features are covered including: sheet metal, weldments, and surface modeling. Students will design and fabricate various metallic parts using an English Wheel, 3-Axis Bead Roller, and Shrinker/Stretching machines.

English

ENGL 1101:Composition I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Focuses on skills required for effective writing in a variety of contexts, with emphasis on exposition, analysis, and argumentation. Also includes introductory use of a variety of research skills.

ENGL 1102:Composition II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in ENGL 1101

Focuses on developing writing skills beyond the levels of proficiency required by ENGL 1101. Emphasizes interpretation and evaluation and advanced research methods. .

ENGL 2110:World Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of world literature that explores human experience by examining diverse aesthetic and cultural perspectives from ancient to modern times.

ENGL 2120:British Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of important works of British literature.

ENGL 2130:American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of important works of American literature.

ENGL 2145:Introduction to English Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to the reading, writing, research, and critical strategies essential to KSU English Studies. The course draws connections among the four content areas in the English Department (Literature, Language, Writing, and Theory) and focuses on their relationship to broader social and personal contexts, enabling students to make informed choices about their program of study and their careers.

ENGL 2160:American Literature Survey

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This survey of American literature from its beginnings to the present introduces English and Secondary English Education majors to the historical periods and major trends and figures of American literature.

ENGL 2172:British Literature, Beginnings to 1660

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This survey of British literature from its beginnings to 1660 introduces English and Secondary English Education majors to the historical periods and major trends and figures of British literature.

ENGL 2174:British Literature, 1660 to Present

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This survey of British literature from 1660 to the present introduces English and Secondary English Education majors to the historical periods and major trends and figures of British literature.

ENGL 2271:Introduction to Teaching English Language Arts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course provides an introduction to teaching English Language Arts (grades 6-12). Through the study of theory and practice, context-based models, and specific applications, students explore the potential of the English Language Arts classroom and investigate the professional roles, relationships, and responsibilities of the English Language Arts teacher. This course is a prerequisite for all other English Education courses and mandatory for admittance to the English Education program.

ENGL 2290:Special Topics

1-12 Variable Credit Hours

Students will explore special topics relevant to the Department of English.

ENGL 2300:African-American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 .

This course is a survey of important works of African-American literature.

ENGL 2390:Great Works for Middle Grades Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Any 1000 or 2000 level ENGL course

This course is a survey of classic literature written by diverse authors. It focuses on text analysis and writing about literature. The texts studied are frequently found in the middle grades classroom.

ENGL 3230:Literary Genre

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of the development and history of a particular literary form, such as narrative, poetry, or drama, through the exploration of representative works. Particular attention is given to the evolution of new strategies for the creation and reception of the genre and to the aesthetic, historical, and cultural conditions that shape those strategies.

ENGL 3232:Topics in Drama

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of selected topics, authors, or periods of dramatic literature. The course also addresses the fundamental literary generic characteristics of dramatic form, including plot, character, action, and setting, as well as the conventions of dramatic genres, such as tragedy, comedy, tragicomedy, closet, and narrative drama.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 3241:Technology and Digital Media in English/Language Arts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2271 and admission into the English Education program

This course provides students with experience in the ways that digital media and technology can be used meaningfully in the English/Language Arts classroom. Students consider, experiment with, and apply specific technologies in order to develop comfort with and control over these tools. The course prepares students to develop adolescents' literacy practices with technology in the English/Language Arts classroom.

ENGL 3250:Teaching Writing in Middle Grades Language Arts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2271

This course is an exploration of current theories of composition pedagogy in practice at the middle grades level, including a variety of strategies for teaching and assessing writing while dealing with institutional policies (including state standards and high-stakes testing). Students write for a variety of purposes and audiences; analyze traditional and non-traditional writing assignments for their strengths and limitations; and develop effective instructional strategies, materials, and assessments.

ENGL 3270:Teaching Grammar and Usage in Middle Grades Language Arts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2271

This course examines approaches for teaching grammar in the middle grades. Students practice grammatical appropriateness in oral and written communication; develop an understanding of grammatical concepts and constructions; analyze errors in order to develop effective instruction; study structures as a means of promoting syntactic growth and diversity of style in writing; and develop constructive, use-based lessons. This course includes an overview of modern grammars, the history of grammar instruction, and research on grammar instruction.

ENGL 3310:Principles of Writing Instruction

5 Class Hours 3 Laboratory Hours 6 Credit Hours

Prerequisite: ENGL 2271 and admission into the English Education or Secondary and Middle Grades Language Arts program

This course provides an exploration of theories of composition pedagogy and assessment, including a variety of strategies for teaching writing while dealing with institutional policies such as standardized testing. Students practice oral and written communication for various audiences and purposes; create, implement, and assess writing instruction in a middle school setting; and create and practice research-supported approaches to grammar instruction. The course includes a 45-hour embedded field experience in a middle school.

ENGL 3320:Scriptural Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of authors, themes, genres, and composition of scriptural writings.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 3322:Hebrew Scriptures as Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of the Hebrew Scriptures of the Bible, known to Christians as the Old Testament, as literature, concerning its aesthetic value with respect to authors, themes, genres, and composition within the context of its original Hebrew and Jewish audiences. Students improve and refine their abilities to read, think, write, and speak critically and cogently about scriptural literature and have an increased familiarity with much of the Hebrew Bible.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 3324:New Testament as Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of the New Testament of the Bible as literature, concerning its aesthetic value with respect to authors, themes, genres, and composition within the context of its original Mediterranean audiences. Students improve and refine their abilities to read, think, write, and speak critically and cogently about scriptural literature and have an increased familiarity with much of the New Testament.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 3330:Gender Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of literature using gender as the primary category of analysis. Viewing gender as a social construction, it explores such issues as gendered roles in society, interactions between private and public life, gender's relation to canon formation, and individuals' struggle to define their place in culture in the face of gendered expectations. It may focus on a region or nation, a time period, a theme, a representative individual, or some combination.

ENGL 3340:Ethnic Literatures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of literature using ethnicity as the primary category of analysis. Individual offerings of the course might survey a range of ethnic literatures (e.g., Asian American, Chicano, Native American, Jewish) or explore one such body of texts (e.g., Caribbean literatures).

ENGL 3342:Topics in Native American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of a selected topic in Native American literature. For example, the course might focus on a single artist (such as Louise Erdrich), a group of artists (such as writers of the Native American Renaissance), a genre (such as Indigenous science fiction), a region (such as writers of the Native South or the Pacific Northwest), or a theme or issue (such as Murdered and Missing Indigenous Women or intergenerational trauma).

ENGL 3350:Regional Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of literature using region as the primary category of analysis. Texts might include fiction and nonfiction, performance texts (such as drama and folktales from the oral tradition), and examples of material culture. The class might focus on a specific geographic region (e.g., the Caribbean); a comparative study of regional culture (e.g., Faulkner's Yoknapatawpa vs. Hardy's Wessex); or authors or themes closely associated with a region (e.g., Cather's West).

ENGL 3360:Major African American Writers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course concerns the development of African American literature with emphasis on major writers defining trends, movements, genres, and themes.

ENGL 3391:Teaching Literature to Adolescents

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2271 and admission into the English Education program

Using narrative as a central genre, this course introduces current English teaching philosophy and practice in teaching literature to adolescents. This course models current ways to integrate technology into the curriculum, identifies a variety of multicultural teaching texts, and extends the study of critical theory into the teaching of literature to adolescents.

ENGL 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education/internships (Career Services).

A supervised work experience program for a minimum of two semesters at a site in business, industry or government. For sophomore, junior, or senior-level students who wish to obtain on-the-job experience in conjunction with their academic training.

ENGL 3398:Internship

1-12 Credit Hours

Prerequisite: Approval of departmental internship adviser.

This course is a supervised, credit-earning work experience of one semester with a previously approved business firm, private agency, or government agency.

ENGL 3400:Survey of African Literatures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of African literatures, including the orature, literature, performance texts, film and/or other media produced in each quadrant of Africa, from early times to the present day. For example, the course might survey African narrative, looking at a selection of early epics, folktales, short stories or novels representing themes, motifs, and styles in each quadrant of Africa.

ENGL 3500:Topics in African American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of a selected topic of African-American literature. For example, the course might focus on a single artist (such as Ralph Ellison), a group of artists (such as writers of the Harlem Renaissance), a genre (such as the slave narrative), a source or technique (such as folklore in twentieth century novels), or a theme or issue (such as depictions of women, the oral-musical tradition or humor and signifying).

ENGL 3510:Black Women Writers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a comparative study of literature by Black women writers from the U.S., the Caribbean, Africa, and/or any region in the African diaspora. Readings for the course may include poetry, short fictions, novels, drama, biography, and autobiography. Topics include narrative strategies, modes of representation, and textual depictions of the intersections of race, gender, sexuality, ethnicity, class, nationality, and/or generation.

Note: This course may be crosslisted with AADS 3510

ENGL 3600:Topics in African Diaspora Literatures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of a selected topic in the areas of the African Diaspora. For example, the course might focus on a single author or group of authors: "The Novels of Paule Marshall"; a country or region: "Caribbean Literatures"; a movement or an event: "Post-Colonial Caribbean Literatures"; a theme or issue: "Twentieth-Century Caribbean Women Writers"; a genre: "African, African American and Afro-Caribbean Autobiography"; or a combination of these or other categories.

ENGL 4220:Critical Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2145

An advanced course in interpretive theoretical paradigms as applied to the study of literature and culture, focusing on critical models such as Marxism, Structuralism, Poststructuralism, Deconstruction, Psychoanalytic criticism, and Gender, Ethnic, and Cultural studies.

ENGL 4230:Theory-Based Studies in Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 2145

Concentration on the interpretive strategies and conceptual framework of one of the major paradigms of contemporary literary theory, with attention to the ways in which those paradigms enable the study of a select group of texts, both literary and nonliterary. Topics may include Feminist theory, Marxism, Post-Colonialism, Psychoanalytic Criticism, Cultural Materialism, Ethnic studies, Gender studies, New-Historicism, and Reader Response theories.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4240:Rhetorical Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This advanced course is a study of major texts in rhetorical theory from antiquity to the present, focusing on the significant issues in rhetoric, especially the relationship of language to truth and knowledge. Students gain practice in using rhetorical concepts to analyze both literary and non-literary texts and to produce effective written and spoken arguments.

ENGL 4340:Shakespeare

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of selected comedies, histories, and tragedies, covering the range of

Shakespeare's dramatic art. It may include dramatic form and poetic composition as commentaries on the dramatic genres and an examination of performance theory and practice.

ENGL 4360:American Literature Before 1800

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents literary studies of colonial and early United States literature. Students learn about the wide range of literatures that have emerged from the complex and diverse encounters of Old and New World cultures prior to 1800 in the Americas.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4370:Medieval Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents studies in medieval literature. It may include prose, poetry, and drama and investigate aesthetic, intellectual, and social issues.

ENGL 4372:British Renaissance Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents British literature from the late fifteenth century to 1660, generally exclusive of Shakespeare. It may include poetry, prose, and drama and investigate aesthetic, intellectual, and social issues.

ENGL 4374:Restoration and Eighteenth-Century Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents British literature from 1660 to the late eighteenth century. It may include poetry, prose, and drama and investigate aesthetic, intellectual, and social issues.

ENGL 4380:World Literature Before 1800

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative texts, major themes, or literary movements from around the world before 1800, emphasizing aesthetic and social understanding. It may examine Western and non-Western cultures.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor, curriculum committee, and department chair required prior to registration.

Selected topics of an advanced nature that may include original research for superior students. Normally for projects not served through pre-established curriculum.

ENGL 4401:Topics in African Literatures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of a selected topic in the areas of orature, literature, performance texts, film and/or other media produced in Africa. The course might focus on an author or group of authors: "The Plays of Wole Soyinka"; a region or country: "Twentieth Century South African Literature"; a movement or event: "African Writers of the Negritude Movement"; a theme or issue: "Women's Rights in African Literature"; or a combination of these categories.

ENGL 4460:19th-Century American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative writers in American literature in the nineteenth century.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4470:19th-Century British Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents studies in Romantic and Victorian literature, from the 1780s to the end of the nineteenth century, examining such aesthetic and social themes as the nature and role of the artist, the impulse toward gothicism, the rise of the autobiography, responses to industrialization, and the conflict between tradition and change.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4480:19th-Century World Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative texts, major themes, or literary movements of the nineteenth century, emphasizing aesthetic and social understanding. It may examine Western and non-Western cultures.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4490:Special Topics in English

1-3 Credit Hours

Prerequisite: One of the following courses: ENGL 2110, ENGL 2111, ENGL 2112, ENGL 2120, ENGL 2121, ENGL 2122, ENGL 2130, ENGL 2131, ENGL 2132, or ENGL 2300

This course is a study of selected topics of special interest to faculty and students.

ENGL 4560:20th-Century and 21st-Century American Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative texts, major themes, or literary movements in twentieth-century and twenty-first-century America, emphasizing aesthetic and social understanding.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4570:20th-Century and 21st-Century British Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative twentieth-century and twenty-first-century British literature, with an eye towards important themes, aesthetic movements, and social changes during the period.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4580:20th-Century and 21st-Century World Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course presents a study of representative texts, major themes, or literary movements of twentieth-century and twenty-first-century world literature, emphasizing aesthetic and social understanding.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

ENGL 4620:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 90 hours, and permission of the department

The senior seminar is a summative academic experience that builds on previous coursework and gives advanced English majors the opportunity to engage with in-depth research on a topic related to language, literature, or writing. The small class size fosters a community of readers and writers that provides support in the process of writing a substantial seminar essay informed by current scholarship. Students also develop their communication skills through oral presentations.

LING 3020:Linguistics and Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One of the following courses: ENGL 2110, ENGL 2111 , ENGL 2112 , ENGL 2120, ENGL 2121 , ENGL 2122 , ENGL 2130, ENGL 2131 , ENGL 2132 , or ENGL 2300 .

This course surveys intersections between linguistics and literary studies. It introduces students to one or more of the major linguistic theories and methodologies that can inform literary analysis, such as semiotics, poetics, pragmatics, narrative theory, structuralism, post-structuralism, (neo-)formalism, discourse analysis, or stylistics.

LING 3025:Linguistics for Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Because language study is a key component of the English/Language Arts classroom, this course focuses on specific linguistic aspects of the English language (e.g., morphology, stylistics, discourse, etc.), grammar in context, language variation in life and literature, and sociolinguistic implications of teaching English. There is a strong focus on methodology, such as examining pedagogical stances and creating lesson plans.

LING 3030:Studies in Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of the theories and methods of linguistics, including their application to topics such as language acquisition, sociolinguistics, politics, discourse analysis, advanced grammar, or the historical development of English.

Notes: This course can be taken more than once provided the course content differs entirely from the previous offering.

LING 3035:Introduction to Language and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course analyzes the nature of human language. It includes an introduction to speech sounds,

morphology, and syntax. A heavy emphasis is placed on the social and pedagogical implications of modern linguistic theory, which includes an examination of issues such as Standard English, dialect variation, language acquisition, or English as a Second Language.

LING 3040:History of the English Language

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study of the development of English, with attention to influential historical events and to the evolving structure of the language.

LING 3045:Grammar of Contemporary American English

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course surveys both traditional and contemporary approaches to grammar. It addresses long-established grammatical terms and concepts, inviting students to critically examine the notion of "correct" grammar and to discuss the development and maintenance of standard language. It also considers contemporary topics such as rhetorical grammar, functional grammar, and grammar in digital environments. This course is particularly useful for students considering careers in education, editing, or professional writing.

LING 3050:Sociolinguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is an introduction to English sociolinguistics. It surveys how language is impacted by social variables such as ethnicity, gender, age, sexuality, and geography. It also explores topics including slang, jargon, dialect, identity, and power. Students are introduced to the basic subfields of linguistics-phonology, morphology, and syntax-before venturing into deeper sociolinguistic issues. The course should interest students pursuing careers in education, writing, business-and those wanting to expand their knowledge of linguistics.

LING 3055:Politics and Language

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course surveys a number of the most important intersections between linguistics and politics in American and global cultures today. Topics may include the "English only" movement; political correctness; the politics of gendered language; framing theory and the language of American political debate; language, ideology, and discourse analysis; and the politics of English as a "global" language. This class may be of particular interest to students heading towards careers in journalism, law, politics, or education.

LING 3760:World Englishes

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This writing-intensive course is a study of the unprecedented growth of English on a global scale. It examines the current state of English in the world and the cultural and social factors that have given rise to a number of different varieties of English. These varieties, attitudes towards them, and implications for various written media are explored.

English as a Second Language

ESL 1105:Grammar Seminar for International Students

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an individualized and small group seminar open to all Kennesaw State University students for whom English is a second language. International students will discuss North American English (NAE) grammar and its academic applications, focusing on those features of the language that are most problematic for second language writers and speakers. The development of editing skills is emphasized.

ESL 1106:Oral Communication for International Students

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is open to all Kennesaw State University students for whom English is a second language. The course is designed to help intermediate to advanced ESL students improve both their conversation and public speaking skills through small group activities and class presentations. Also, pronunciation practice will play an important role throughout the course in helping students become more confident speakers of North American English (NAE).

English Education

ENED 4000:Service Learning in English Education

1-3 Class Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

ENED 4414:Teaching of English Language Arts I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 3241, ENGL 3310, ENGL 3391, and admission to the English Education program and Yearlong Clinical Experience. **Corequisite:** ENED 4650

This course addresses the practical application of English Language Arts curricula, learning theories, teaching strategies, instructional materials, and assessment choices within specific teaching contexts.

The course emphasizes justifying teaching decisions based on clear rationales anchored in practice, theory, and research; refining the facilitation of high levels of learning in all students through effective practices; and adjusting teaching moves based on evidence, such as classroom self-observation, student response and performance, and student products.

ENED 4416:Teaching English Language Arts II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENED 4414 and ENED 4650 **Corequisite:** ENED 4660

This course continues the practical application of English Language Arts curricula, learning theories, teaching strategies, instructional materials, and assessment choices within specific teaching contexts begun in Teaching of Language Arts I. This course emphasizes justifying teaching decisions based on clear rationales anchored in practice, theory, and research; refining the facilitation of high levels of learning in all students through effective practices; and adjusting teaching moves based on evidence, such as classroom self-observation, student response and performance, and student products.

ENED 4498:Internship in Teaching English

0 Class Hours 18 Laboratory Hours 12 Credit Hours

Prerequisite: Provisional teaching license issued by State of Georgia, full-time employment teaching English.

Student teaching experience in English for employed, provisionally certified teachers. Supervision will be in collaboration with a mentor-teacher in the local school and a university English education supervisor. When taken for 12 hours of credit at the same school, this internship will automatically substitute for ENED 4475. Proof of professional liability insurance is required. Students are responsible for their own school placements.

ENED 4650:Yearlong Clinical Experience in ELA I

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: ENGL 3241, ENGL 3310, ENGL 3391; Admission to the English Education Program; Pre-Service Certificate; Admission to Yearlong Clinical Experience **Corequisite:** ENED 4414, EDUC 4610

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in English education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Proof of liability insurance is required.

ENED 4660:Yearlong Clinical Experience in ELA II

0 Class Hours 30 Laboratory Hours 6 Credit Hours

Prerequisite: ENED 4650 **Corequisite:** ENED 4416

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in English Education. Under the guidance of a collaborating teacher and university

supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Proof of liability insurance is required.

Entrepreneurship

ENTR 4001:Entrepreneurial Mind

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Using an experiential, applied approach and global perspective, this course introduces students to the fundamentals of an entrepreneurial mindset consisting of creatively encouraging big dreams and then identifying and differentiating between ideas and opportunities. It introduces the four key elements of entrepreneurship: mindset, resource acquisition, adaptive planning and creating value. It serves as a framework and catalyst to stimulate entrepreneurial motivation and action to create new ventures.

ENTR 4002:Venture Creation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENTR 4001, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

As an introduction to creating value for an entrepreneurial venture, this course provides information to increase students' awareness of the importance of being both externally-centric (focusing on definitions of value from the customer perspective) and internally-directed. This is achieved by developing and implementing strategies that meet customer expectations and satisfy the objectives of the new venture.

ENTR 4003:Venture Funding

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENTR 4001, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Students identify and examine different types of financing, differentiate between venture capital and angel investor funding, and locate alternative financing (such as crowd-funding, peer-to-peer lending, micro-loans, and SBA loans). Additionally, students learn how to determine the value of a new venture. The course explores sourcing and acquiring financial resources that are required in new venture start-ups. Exit strategies including mergers, acquisitions, firm sales, and initial public offerings (IPOs) are examined.

ENTR 4004:Venture Commercialization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENTR 4002 and ENTR 4003, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course integrates the aspects of developing the entrepreneurial mindset, creating market value, financing the venture, and commercializing the opportunity for a new for-profit, enterprise initiative (Intrapreneurship) or social business venture. The students execute the action phase of the business plan, engage capital strategies, secure charter customers, interview community entrepreneurs, and formally pitch the new venture for critique by entrepreneurs or venture capitalists.

ENTR 4122:Venture Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 or ENTR 4001

A course that applies the concepts of small business management, entrepreneurship and creativity to the analysis of complex business problems faced by new ventures and existing small businesses. Case studies will be used to develop students' ability to identify and solve problems. Work will continue on personal startup projects and business plans.

ENTR 4125:International Entrepreneurship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MGT 3100 or MGT 3600 or ENTR 4001) and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

An examination of the role of the entrepreneur in creating new international business ventures. This course provides students with both a theoretical and practical understanding of new venture creation in the international marketplace, including extensions of domestic enterprises and new enterprises.

ENTR 4400:Directed Study

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Special topics of an advanced nature not in the regular course offerings.

ENTR 4490:Special Topics in Entrepreneurship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Selected topics of interest to faculty and students.

Environmental Science

ENVS 2202K:Introduction to Environmental Science

3 Class Hours 3 Laboratory Hours 4 Credit Hours

This course is an examination of contemporary environmental issues related to Earth's natural systems such as human population dynamics, natural resources, environmental quality, global changes, and environmental values in society. Students will learn how to apply scientific principles and data to gain an understanding of modern environmental challenges on local, regional, and global scales.

ENVS 3100K:Soil & Water Science

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (CHEM 1211 and CHEM 1211L) and (CHEM 1212 and CHEM 1212L)

This course will provide an overview of soil and water science including study of the physical, chemical and biological properties of each and how these properties relate to soil health and water quality. Students will consider human activities that impact soil and water resources, learn how to assess those impacts and apply management approaches towards them. Laboratory exercises will involve the application of techniques for monitoring soil and water quality and methods for remediation.

ENVS 3110L:Directed Methods

0 Class Hours 3-9 Laboratory Hours 1-3 Credit Hours

Prerequisite: ENVS 2202K and permission of the instructor

This laboratory course will allow students to gain in-depth skills with a specific set of research methodologies through direct involvement in faculty-led research or scholarship. Course content and instructional methodologies will be identified by the faculty's needs and expectations.

ENVS 3150K:Environmental Toxicology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) and (CHEM 3361 and CHEM 3361L)

Environmental toxicology is the study of the nature, properties, effects and detection of toxic substances in the environment and environmentally exposed species, including humans. Students taking this course will learn to quantify environmental exposures using dose-response relationships, categorize the absorption of toxicants, calculate the distribution of storage toxicants, describe the biotransformation and elimination of toxicants, determine target organ toxicity, teratogenesis, mutagenesis, and carcinogenesis of various toxins and manage the risks associated with them.

ENVS 3350:Oceanography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CHEM 1212 and CHEM 1212L) and (BIOL 1108 and BIOL 1108L)

Students in this course will learn how plate tectonics affect the positioning of our continents, how the

physical and chemical makeup of seawater affects the ocean's properties, and how air-sea interactions, ocean circulation, waves and tides all affect our climate. Finally, students will explore the biological richness of the ocean ecosystem by studying coastal habitats, biological productivity, pelagic and benthic marine organisms, marine pollution and the exploitation of marine resources.

ENVS 3398: Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: 90 credit hours and permission of the instructor.

This course provides a structured out of the classroom experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of faculty and the internship supervisor. Internship sites must be secured in advance of the semester of the placement and must be approved by the student's advisor and internship coordinator.

ENVS 3450: Conservation Biology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 1108 and BIOL 1108L

This course will cover fundamental principles of conservation biology. Students will learn about the history and development of the conservation movement, learn how to examine human impacts on plants and wildlife, delve into interaction of conservation and society, and determine how to manage and conserve endangered species. Class exercises will cover quantitative techniques used to evaluate and predict the status of plant and animal populations and ecological methods for monitoring and maintaining biodiversity in ecosystems.

ENVS 3720: Sustainability at KSU

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1108 and BIOL 1108L) or GEOG 1113

The course includes an in-depth survey of sustainability efforts in the areas of campus facilities and curriculum at Kennesaw State University and is especially relevant for students with interest in the area of Environmental Studies. The course has a service-learning component in which teams of students examine aspects of KSU's sustainability activities and develop proposals to improve or enhance ongoing efforts or introduce new ones.

Notes: This course is cross-listed with BIOL 3720.

ENVS 3730: Natural Resource Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (BIOL 1107 and BIOL 1107L and BIOL 1108 and BIOL 1108L) or (SCI 1101 and SCI 1102)

This is an introductory course designed to provide students with a basic foundation for an understanding of the importance of natural resource conservation within the context of a variety of local, regional, national, and global resource and environmental concerns. This course examines the

effects various natural resource management practices have on the quality of life for both present and future generations with much of the material focusing on the concept of sustainable development.

ENVS 4000K:Wetlands and Mitigation

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: BIOL 1107 and BIOL 1107L and ENVS 3100K

This course covers wetlands as components of natural landscapes. Students will learn to characterize the biogeochemistry, hydrology, geomorphology, and soil properties of wetlands. Students will learn how to classify wetlands by considering soil and hydrologic factors important to wetland delineation and jurisdictional determination. Finally, students will learn how to mitigate impacts on wetlands with an emphasis on wetland restoration and creation.

ENVS 4200:Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Any geography or science lab course and 60 credit hours.

This course is designed to prepare students for scientific research in the environmental field and related disciplines. It introduces students to a variety of spatial and environmental research concepts, approaches, methods, and techniques. This course guides students through aspects of scientific research.

Notes: This course is crosslisted with GEOG 4200.

ENVS 4300:Environmental Ethics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STS 1101

This course is designed to extend the traditional boundaries of the ethical relationships between humans to the nonhuman world in the natural environment. Philosophical and social issues have surfaced in the twenty-first century emerging as environmental ethical dilemmas demanding resolution. Case studies and a variety of interdisciplinary literature pieces are incorporated which allow students to consider the impact of ethical dilemmas and evaluate their social influences.

ENVS 4399:Environmental Science Seminar

1 Class Hours 0 Laboratory Hours 1 Credit Hours

This seminar will explore current topics in environmental science, regulation, and policy. Faculty and outside speakers from government and private industry will give presentations and lead discussions. Students will be expected to attend all lectures and participate.

ENVS 4400:Directed Study

0-4 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite:

Approval of Instructor and Dept. Chair for Ecology, Evolution and Organismal Biology
Students will learn selected topics of an advanced nature and may include original research projects.

ENVS 4490:Special Topics in Environmental Science

1-3 Class Hours 0-3 Laboratory Hours 1-4 Credit Hours

Prerequisite: Instructor approval.

Selected special or current topics of interest to faculty or students.

European Studies

EUST 2050:Introduction to European Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is a survey of the foundational figures, themes, and texts in European Studies in an interdisciplinary and global context. It serves as an introduction to European Studies with a focus on the Modern Era. Students engage with appropriate texts from a variety of European countries and cultures in an interdisciplinary intellectual environment.

EUST 4040:Capstone in European Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EUST 2050 or permission of the instructor

This course offers an in-depth examination of a topic or major figure relevant to the field of European Studies. This course may include but not be limited to humanistic, analytical research and / or literary analysis; and / or community engagement exercises with the express purpose of applying knowledge in the field of European Studies in the community.

Exercise Science

ES 2100:Physical Activity in Health and Disease

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an epidemiological foundation to physical activity research specific to public health. Participants will examine the literature relative to the physiological impact of regular physical activity on chronic diseases (e.g., cardiovascular diseases, diabetes, cancer, etc.).

ES 2200:Safety Training for the Fitness Professional

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Exercise Science Majors/Interests or Sport Management Majors.

The purpose of this course is to provide students with the knowledge and skills necessary for using the Exercise Physiology Laboratory safely. Students will learn and practice the emergency action plan. This course will provide students with the knowledge and skills necessary to help provide a safe environment for athletes when they are participating in sport/exercise and, in an emergency, to help sustain life and minimize the consequences of injury or sudden illness until advanced medical help

arrives. Students will have an opportunity to become certified in First Aid and CPR/ AED for the Professional.

ES 2290:Special Topics

1-3 Credit Hours

This course includes select physical activity units not regularly offered through the Department of ESSM.

ES 2300:Medical Terminology

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Exercise Science Major, Exercise Science Interest, Public Health Education Interest, Public Health Education Major, Biomedical Engineering Minor, or Integrated Health Science Major.

Concurrent:

BIOL 2221 or HPE 2250

This course will cover the basic techniques for anatomical, physiological, and medical word-building. The course will teach a systematic approach to defining general medical terms and terms for pathological disorders by dividing them into word roots, combining forms and prefixes.

ES 2500:Principles of Nutrition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science Interest/ Major, or Public Health Education Interest/ Major, or Sport Management Major, or Integrated Health Science Major, or Nutritional Science Minor

This course is designed to introduce students to the basic principle of nutrition as needed for general health. Topics include the role of diet in the development and prevention of chronic diseases, such as cardiovascular disease, cancer, diabetes, etc.; macro- and micro-nutrient needs for optimum health; U.S. dietary guidelines (and international equivalents); tools to assist with menu planning; and dietary analysis.

ES 3100:Group Exercise Leadership

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; BIOL 2221 **Concurrent:**

ES 2200

This course is designed to provide students with leadership skills and experience that directly apply to group exercise programming. Topics include current trends in group exercise, program design and implementation, monitoring exercise, evaluation of existing programs, and administrative considerations.

ES 3105:Lifecycle Nutrition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 2500 .

This course is designed to introduce students to the role of nutrition through the different stages of the

lifecycle. Physiological and biological changes, and their implications for nutritional factors will be discussed with each stage of life, including preconception, pregnancy, lactation, infancy, childhood, adolescence, adulthood, and older adults (65+).

ES 3200:Research Methodology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major, STAT 1401, and 60+ credit hours.

This course provides an overview of the research process applied in the study of exercise and health science. Students are introduced to simple experimental design, data gathering techniques, statistical concepts and methods, and research writing.

ES 3300:Food Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 2500.

This course explores engineering, biological, and physical sciences to study the nature of foods, the causes of deterioration, the principles underlying cooking and food processing, and the improvement of food quality for the consuming public. Students acquire a basic theoretical understanding of the chemical and physicochemical principles involved in creating and maintaining desirable food sensory and nutritional properties during food storage, preparation and holding.

ES 3398:Internship in Exercise Science

1-3 Credit Hours

Prerequisite: Exercise Science major and approval of the department chair

This course offers students a supervised, credit-earning experience of one academic semester with a previously approved business firm, sport organization, private agency or governmental agency. Students must have current professional liability insurance and CPR/AED certification. Credit may be placed in the elective areas.

Notes: S/U grading only. Repeatable once.

ES 3420:Food and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 2500.

This course explores how food behaviors are influenced by geography, nationality, social class, history and religion. Students will evaluate food systems at local and global levels, focusing on how food is produced, transformed, distributed, consumed, and how food waste is managed. Students will also explore sustainable food practices and what certain cultures are doing to minimize food production's negative impact on climate change.

ES 3500:Nutritional Assessment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 3105.

This course provides a comprehensive introduction to the dietary, biochemical, and anthropometric methods used in assessing nutritional status for individuals and groups. This course also includes the study of medical terminology, counseling techniques, and approaches to determining nutrient requirements.

ES 3600:Health Fitness Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; BIOL 2221 and ES 2200 .

This course provides an introduction to the professional standards and guidelines that assist a health and fitness facility with providing quality service and program offerings in a safe environment. Course content will include an overview of risk management and emergency policies, operating practices, facility design and construction, equipment concerns and signage issues related to health and fitness facilities.

ES 3700:Strength and Conditioning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; BIOL 2221 and ES 2300 . **Corequisite:** ES 3750 Strength and Conditioning Laboratory

This course offers students an introduction to scientific and practical foundations associated with strength and conditioning programs. The course content promotes the use of a structured scientific approach in the prescription of progressive resistance training and cardiorespiratory conditioning.

ES 3750:Strength and Conditioning Laboratory

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science Major, BIOL 2221, ES 2300. **Corequisite:** ES 3700

This laboratory course provides an introduction to techniques commonly associated with instructing strength and conditioning programs. The laboratory content promotes the use of a structured scientific approach in the prescription of progressive resistance training and cardiorespiratory conditioning.

ES 3800:Biomechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major, BIOL 2221 and ES 2300 .

This course introduces students to the study of neuromuscular and mechanical principles of motion related to the analysis of human movement.

ES 3900:Physiology of Exercise

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; BIOL 2222 .

This course provides an overview of the human body's responses to the stress of physical exercise. Students are introduced to the metabolic, cardiovascular, pulmonary and neuromuscular adaptations to acute and chronic exercise.

ES 4000:Service Learning in Exercise Science

1-3 Credit Hours

Prerequisite: 60+ semester hours, Exercise Science major and permission of the department chair.

This course offers students a community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. The community activity is designed with the instructor and approved by the department chair.

ES 4050:Community Nutrition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 3105.

This course will examine the role of state and federal nutrition programs in promoting and improving health within the community. It will explore nutritional assessment and monitoring methods, as well as intervention and management strategies for nutrition services.

ES 4120:Weight Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; ES 3105.

This course will introduce techniques for assessing weight status and health, and explore dietary and physical activity approaches for weight control. The course will also provide a comprehensive overview of weight loss strategies and treatment approaches to obesity and disordered eating.

ES 4200:Nutrition and Performance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major, (ES 2500 or CSH 2500) and ES 3900 .

This course covers the nutritional needs of individuals participating in exercise and sport. Topics include but are not limited to the dietary needs of the human body before, during and after various modalities and intensities of athletics in order to optimize performance.

ES 4250:Advanced Human Nutrition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Nutritional Science Minor; CHEM 3500 and ES 3105

This course will explore the physiological and biochemical processes involved in both macro and

micro nutrient metabolism. This course will cover the basics of digestion and absorption, how the body metabolizes and utilizes essential and nonessential nutrients.

ES 4300:Physiology of Exercise and Aging

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; ES 3900 .

This course provides an overview of exercise physiology and healthy aging. The course emphasizes special considerations during fitness assessment, exercise prescription, and health promotion for special populations including the older adult, children, adolescents, and females during pregnancy and the post-partum period.

ES 4400:Directed Study

1-15 Credit Hours

Prerequisite: 2.75 Institutional GPA, Exercise Science major, 60+ semester hours and permission of the department chair

This course covers topics and seminars of an advanced nature external to regular course offerings.

ES 4490:Special Topics in Exercise Science

1-3 Credit Hours

Prerequisite: 2.75 Institutional GPA, Exercise Science major

This course includes selected topics of interest to faculty and students not regularly offered by the Department of ESSM.

ES 4500:Physiology of Exercise II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; ES 3900. **Corequisite:** ES 4550

This course examines the study of the physiological basis of training and factors limiting human performance. Students are introduced to concepts of neuromuscular function, hormonal control, environmental conditions and ergogenic aids as they relate to acute and chronic exercise.

ES 4550:Exercise Science Laboratory Techniques

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Exercise Science major; ES 3900. **Corequisite:** ES 4500

This course provides an introduction to laboratory techniques commonly used in the field of exercise science. The course includes an overview of ergometry, energy expenditure, blood pressure, cardiovascular, pulmonary, and musculoskeletal responses during exercise. The topics within the course include safe, legal, and ethical practices required when working in an exercise physiology laboratory.

ES 4600:Exercise Prescription

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; ES 4500 and ES 4550. **Corequisite:** ES 4650

This course introduces students to methods utilized in creating exercise prescriptions and developing exercise programs. Emphasis is placed on developing and delivering safe and valid exercise prescriptions.

ES 4650:Exercise Testing

0 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; ES 4500 and ES 4550. **Corequisite:** ES 4600

Exercise Testing is a detailed examination of various fitness assessments. This course emphasizes current test procedures used for determining body fat percentage, maximum oxygen uptake, maximum power output, and muscular strength and endurance. This course thoroughly familiarizes students with lab procedures, test protocol, and the interpretation.

ES 4700:Clinical Exercise Physiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science major; ES 4500 and ES 4550.

This course is designed to address the clinical aspects and implications of exercise physiology principles for those with or at risk of developing cardiovascular, pulmonary or metabolic disease.

ES 4800:Clinical Biomechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 2.75 Institutional GPA, Exercise Science major, ES 3800.

This course includes a survey of acute and chronic activities related to injury and biomechanical mechanisms. The course will expose students to basic kinetic and kinematic analyses. The course includes an examination of contemporary theories of prevention using a biomechanical perspective.

ES 4900:Senior Seminar in Exercise Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Exercise Science Major. **Concurrent:**
ES 4600 and ES 4650

This course is a capstone course designed as a culminating experience for the major by integrating the student's prior academic experience in Exercise Science. Students are provided an overview of contemporary issues, trends, theories, and research related to Exercise Science. This course is delivered in a seminar format to encourage student participation and interaction with peers and faculty.

ES 4950:Exercise Science Senior Internship

3 to 12 Credit Hours

Prerequisite: Exercise Science major, ES 4500 and ES 4550, 90+ credit hours, and approval of the department chair.

This course is a senior-level credit-earning experience at an approved exercise science internship site. During this course, students work under the direct supervision of an exercise science professional and university supervisor. Students must have current professional liability insurance and CPR/AED certification.

Notes: Credit for the course can be placed in the elective areas only.

Film

FILM 2290:Special Topics

1-12 Class Hours

Prerequisite: Varies based on subject
Special topics selected in the study of Film.

FILM 3105:Introduction to Screenwriting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This class introduces students to fundamental and foundational techniques of screenwriting such as formatting, three-act structure, character development, plot function, and dialogue. Students will study screenwriting theory and practice techniques as they develop original (short) screenplays. Students will learn about professional standards and best industry practices. Table readings, one-on-one conferences, and peer revision techniques may be used.

FILM 3125:Introduction to TV Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This class introduces students to fundamental and foundational techniques of writing for television such as formatting, television act structure, character development, television plot function, and dialogue. Students will study television writing theory and practice techniques as they develop an original (short) pilot script. Students will learn about professional standards and best industry practices. Table readings, one-on-one conferences, and peer revision techniques may be used.

FILM 3200:Film History I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course surveys the major artistic movements, technological changes, and critical approaches

important to film from 1895 to 1950, covering German Expressionism, Soviet montage, the Hollywood studio system, and the transition from silent to sound cinema.

FILM 3210:Film History II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course surveys the major developments, movements, and critical approaches in international cinema from 1950-1980, including considerations of the rise of the auteur, the institutionalization of widescreen, the impact of television on film design and distribution, and the emergence worldwide of several creative "new waves."

FILM 3215:Film History III

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course surveys major developments in film since 1980, including the rise of the blockbuster, the co-production, and the independent film; the use of digital animation, special effects, and distribution technologies; the impact of VHS, DVD, and streaming services on film exhibition, reception, and design; and the rise of several new international cinematic movements.

FILM 3220:Topics in American Cinema

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on the output of a specific studio, the concerns of a filmmaking collective, the aesthetic trends of a historical period, or a theme of special importance to American cinema.

FILM 3230:Topics in World Cinema

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on the artistic contributions, the representational traditions, and the major works of a specific national cinema, diasporic filmmaker, or worldwide cinematic movement.

FILM 3240:Film Genres and Movements

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to the major films of a specific genre, such the Western, the comedy, or the horror film, or to the milestones, stylistic features, and cinematic influence of a major film movement.

FILM 3250:Film Authors

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to the major films, the stylistic signatures, the thematic obsessions, and the cinematic influence of a noteworthy filmmaker, whether a director, actor, screenwriter, or other artist.

FILM 4105:Advanced Screenwriting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FILM 3105

In this class, students will build on fundamental skills developed in FILM 3105, exploring advanced screenwriting methods such as genre conventions, scene dynamics, integration of theme, and advanced rewriting practices. Students will also study and practice skills such as pitching and marketing finished works. Table readings, one-on-one conferences, and peer revision techniques may be used. This class is writing intensive. This course can be taken up to two times (6 credit hours) for credit towards graduation.

FILM 4125:Advanced TV Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FILM 3125

In this class, students build on fundamental skills developed in FILM 3125, exploring advanced television writing topics such as the development process, modes and standards of production, how writers rooms function, and how to build a series bible. Students also study and practice skills such as pitching and marketing finished works. Table readings, one-on-one conferences, and peer revision techniques may be used. This class is writing intensive.

FILM 4200:Theory-Based Studies in Film

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FILM 3200, FILM 3210, FILM 3215, FILM 3220, FILM 3230, FILM 3240, or FILM 3250

This course surveys major theoretical writings about film, focusing on such discourses as queer theory, feminist film theory, psychoanalytic film theory, and film semiotics.

Finance

FIN 2500:Consumer Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

A nontechnical course designed to develop an understanding of the basic principles and techniques as they apply to personal income, spending and investing. Emphasis is placed upon financial planning, budgeting, saving, home ownership, estate planning, and retirement.

Notes: This course is for non-business majors. This course will not count for business majors.

FIN 3100:Principles of Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (Grades of "B" or higher in ACCT 2101, ACCT 2102, ECON 2106, ECON 2105 and ECON 2300) or Admission to Coles College Undergraduate Professional Program or completion of 60 credit hours with a minimum GPA of 2.0, ACCT 2101, ACCT 2102, ECON 2106, ECON 2105 (ECON 2300 or STAT 1401) and student in a Coles College Partner Program that includes this course.

An introductory course designed to develop knowledge of the basic concepts, principles, and functions of managerial finance. Topics include the time value of money, valuation of bonds and stocks, financial analysis, working capital management, capital budgeting, and capital structure strategies.

FIN 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: FIN 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised work experience program for a minimum of two academic semesters at a site in business, industry, or government. For sophomore, junior, or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

FIN 3398:Internship

1-12 Credit Hours

Prerequisite: FIN 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency, or government agency. A research paper is required to receive credit. For junior or senior students who wish to participate in an on the job experience in which they may apply their academic education. The work experience may not be with a current employer. This course will be graded on an S/U basis.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

FIN 4220:Corporate Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Application of the principles and concepts of finance to the acquisition and management of corporate assets and financial resources, the management of the firm's capital structure, and development of dividend policy.

FIN 4260:Short Term Financial Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Focuses on the structure and functioning of payment systems, the management of short-term assets and short-term liabilities of the business firm, and the impact of computer and communications technologies on financial management systems.

FIN 4320:Fixed Income Securities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides students with knowledge of the fixed-income markets. The course will cover the pricing and risk management of fixed-income securities, and an introduction to fixed-income derivatives. It covers interest rate management, product fundamentals, and portfolio strategies. This course is a valuable preparation for students interested in taking the Chartered Financial Analysts (CFA) examination.

FIN 4360:Investments

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MATH 1160 or MATH 1190) and FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides students with working knowledge of equity securities and portfolio management with an emphasis on the fundamental trade-off between risk and return. The course covers securities markets, efficient diversification, asset pricing models, and investment strategies of individual and institutional investors. It also introduces students to bonds and financial derivative products.

FIN 4400:Directed Study

1-3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 3.0, Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course, and approval of instructor and Department Chair prior to registration.

Special topics of an advanced nature not in the regular course offerings.

FIN 4420:International Financial Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that

includes this course.

Investigates the implications for financial decision making rules and policies that result from consideration of an international financial perspective.

FIN 4460:Financial Statement Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course focuses on financial statement users, their information needs, and how effective financial statement analysis addresses those needs. Students will be instructed in methods to assess the financial health and performance of a firm to make realistic valuations and sound financial decisions (e.g., as to investing, lending, liquidity, and risk) in light of industry and economic conditions.

FIN 4490:Special Topics in Finance

1-3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course, and approval of instructor and department chair prior to registration.

Selected special topics of interest to faculty and students. This course may be taken more than once.

FIN 4520:Financial Derivatives and Financial Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is designed to help students gain a thorough understanding of the roles of futures, options, and other financial derivatives in allocating risk; the design of financial derivatives; the valuation of financial derivatives; and their applications to financial risk management problems.

FIN 4560:Behavioral Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The tools and applications of behavioral finance are presented. Topics include expected utility, prospect theory and mental accounting; conventional finance and challenges to market efficiency; heuristics and biases, overconfidence and emotion; financial decision-making stemming from psychology; behavioral explanations of observed behavioral anomalies; aggregate stock market puzzles; and retirement and pensions.

FIN 4590:Applied Equity Valuation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the Department Chair, and FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College. Membership in Student Managed Investment Fund. This course presents the practical applications of economic and quantitative analysis to determine the intrinsic value of a publicly-traded firm. Students apply contemporary valuation techniques to value an actual firm and prepare a comprehensive investment report based on an evaluation of industry-level economic and competitive conditions, and firm-specific operating risk and financial projections.

FIN 4620:Financial Management of Financial Institutions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Financial decision making concepts are applied to the particular financial management issues of financial institutions, including funds acquisition and management of operations and capital investments.

FIN 4660:Advanced Corporate Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 4220, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides an in-depth coverage and quantitative analysis of the firm's decisions to raise capital publicly, privately, domestically, and globally. The course also covers restructurings of debt obligations (bond refunding, exchange and tender offers), and equity/asset restructurings.

FinTech Academy

FTA 3810:Payments Processing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course focuses on the payment process ecosystem, lifecycle, regulation, security, fraud protection, and payment networks. The student will learn about products and services of the payments, fraud and risk reduction strategies, roles and responsibilities of issuers, acquirers, merchants and banks, and strategies for maximizing payment usage while minimizing loss. The student will also learn about payments negotiations, risk management, customer relationships, principles of authorization, settlement, chargeback, and procedures, strategies, and best practices.

FTA 3850:Digital Payments Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines security issues in the payments vertical. Students explore application security

addressing the challenges and weak points of applications, learn the tools and techniques of machine learning as a defensive security strategy overcoming the continuous automatic attack generated by machines, and engage in hands-on practice in penetration testing. Payments framework and standards including NIST cybersecurity framework, ISO 27001 information security management, and Payment Card Industry Data Security Standards (PCI DSS) will be discussed. Administration of the information security function including the strategic planning process, policies, procedures, and staffing functions necessary to organize and administer ongoing security functions will be discussed. In addition, fraud, regulation, security practices, security architecture, competitive intelligence, and operating environments are emphasized throughout the course.

FTA 3860:Emerging Payments Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Emerging technologies promise immediate payment processing, execution, clearing, and settlement. In reality, businesses have critical infrastructure assets that present conversion challenges or incompatible. In this course, students learn the existing critical payments infrastructure assets to understand how the current technologies work. Students will also learn the opportunities presented by emerging payment technologies. This course will challenge students to develop ideas, write business cases, and develop mockup solutions for the transition.

FTA 3890:Experiential Learning

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Students engage in a team-based interactive virtual experiential learning with a collaborating industry partner to gain on-the-job experience. Stakeholders from the industry partner interact with students synchronously and asynchronously. A virtual collaboration platform is used to enroll, onboard, empathize, reboot, experiment, and deliver business solutions for client problems. Students get mentored, trained, and practice on tools and techniques used in industry. Student progress is tracked using a feedback loop to improve their learning. Prototyping and experimentation are encouraged to understand "real world" issues. Partner companies share their anonymized dataset, tools and techniques. Coaching activities including design thinking, backlog management, and business modeling are used in this course.

FTA 4001:Foundations of FinTech

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The financial services industries are changing rapidly with the emergence of financial technology (FinTech). The objective of the course is to provide students with an overview of FinTech and introductions to its applications in financial services, such as commercial and investment banking, digital investing, financial advising, and insurance. Students are expected to develop a broad understanding of the recent FinTech development and its impact on different parts of the financial world. Students will also have hands-on problem-solving experiences that can be useful in FinTech applications and innovation. Topics may include but are not limited to: blockchain and cryptocurrencies, smart contracting, payments, digital banking, P2P lending, crowdfunding, robo-advising, and InsurTech.

FTA 4002:Financial Technologies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the information and communications tools, technologies, and standards integral to consumer, merchant, and enterprise services in the payments and financial service sectors. Explores technology's role in reshaping FinTech businesses. Technologies span messaging, communication networks and gateways, core processing, mobile and online software, and application program interfaces (APIs). Includes the challenges, standards, and techniques associated with securing systems and data.

FTA 4003:Commercial Banking and FinTech

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The FinTech revolution is creating significant disruption to the traditional processes of managing and regulating financial institutions, especially banks. Understanding, assessing and forecasting FinTech's impact on banking is particularly important because proper management and oversight of financial institutions is essential to the efficient operation of the national, as well as global, economy. In this course, students will learn about the principles and practices of commercial bank management, bank regulation, and the tradeoffs between risk and return. Challenges presented by the FinTech evolution, including traditional and emergent competitors as well as demographic, social, and technology forces driving change in the industry, will be integrated throughout the entire course.

FTA 4005:Introduction to Financial Data Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides the foundation for financial data analytics used in business and FinTech applications. The objective of this course is for students to gain experience in analyzing financial data using modern machine learning techniques, statistical methods, and prediction models. Students will develop computational skills to perform data analysis using a modern statistical programming environment, and apply these skills to address a range of problems encountered by business firms, including those in the FinTech industry. The topics discussed include an introduction to R language, visualization of financial data, cluster analysis, simple and multiple linear regression, classification models, high dimension data analysis using Lasso, tree regression, and model assessment and selection using cross validation. Students will have hands-on experience in the development of data analytics applications to analyze real world financial problems.

FTA 4100:Introduction to Information Security for FinTech

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The purpose of this course is to introduce students to the rapidly evolving and critical international arenas of Privacy, Information Security, and Critical Infrastructure for FinTech. This course is designed to develop knowledge and skills for security of information and information systems within FinTech organizations. It focuses on concepts and methods associated with security across several systems platforms, including internal and Internet-facing systems. The course utilizes a world view to examine critical infrastructure concepts as well as techniques for assessing risk associated with

accidental and intentional breaches of security in a FinTech network. It introduces the associated issues of ethical uses of information and of privacy considerations.

Foreign Language

FL 1001:Introduction to Foreign Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to a foreign language and culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of the culture being studied.

Notes: Not open to native speakers of the language.

FL 1002:Introduction to Foreign Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to foreign language and culture, part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of the culture being studied.

Notes: Not open to native speakers of the language.

FL 2001:Intermediate Foreign Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FL 1002 or permission of the instructor.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of the language.

FL 2002:Intermediate Foreign Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FL 2001 or permission of the instructor.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities.

Notes: Not open to native speakers of the language.

FL 2209:World Languages and Cultures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An overview of world languages and cultures and their manifestations in our society. Class discussions and readings are reinforced through supervised field experiences in the metro Atlanta

area. In addition, students survey academic and professional career opportunities in fields that require linguistic skills and cultural competence.

FL 3309:Survey of Chinese Literature and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course, is a survey of Chinese literature and culture, examining major works and literary and artistic movements as well as cultural issues. Readings and discussions are in English; some readings are in the original for Chinese language students.

Notes: FL 3309, cross-listed as ASIA 3309

FL 4400:Directed Study

1-3 Credit Hours

Prerequisite: FL 2002

Covers special topics external to course offerings in order to allow a student to work individually with an instructor.

FL 4490:Special Topics in Foreign Language

1-3 Credit Hours

Prerequisite: FL 2002 or permission of the instructor.

Selected topics of interest to faculty and students.

HEBR 1001:Introduction to Hebrew Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to Hebrew language and Israeli culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Israeli culture. Not open to native speakers of Hebrew.

HEBR 1002:Introduction to Hebrew Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HEBR 1001 or permission of the instructor

Introduction to Hebrew Language and Culture II stresses continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Israeli culture. Not open to native speakers of Hebrew.

HEBR 1050:Introduction to Biblical Hebrew

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to the ancient Hebrew language. It lays a solid foundation for reading

and analyzing Biblical texts. Note: This course does not prepare students for the study of modern Hebrew, nor is it sequenced with other HEBR courses.

HEBR 2001:Intermediate Hebrew Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HEBR 1002

Students continue to develop proficiency in listening, speaking, reading, and writing and learn to communicate in culturally appropriate ways. Not open to native speakers of Hebrew.

HEBR 2002:Intermediate Hebrew Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HEBR 2001

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Not open to native speakers of Hebrew.

Foreign Language Education

FLED 4408:Second Language Acquisition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to Teacher Education Program or ASIA 3001 or permission of instructor.

This course examines theories of second language acquisition (SLA) and their practical application to second language teaching and learning. It addresses the theoretical foundations of working with second language learners. It focuses on the classroom applications of this theoretical base to interactions with language learners, curriculum, instruction, and assessment. Students interpret relevant SLA research that informs language teaching and takes ownership of SLA theories and research as a rationale for pedagogical decisions

FLED 4410:Methods, Materials, and Curriculum of Foreign Language Education, P-8

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: FLED 3303

This course is an overview of methods, materials and curriculum in foreign language instruction grades P-8. The field experience emphasizes principles of classroom and behavior management as well as ways to put theory into practice.

FLED 4412:Methods, Materials, and Curriculum of Foreign Language Education, 9-12

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: FLED 4408 and FLED 4410 **Corequisite:** FLED 4414

This course is an overview of methods, materials and curriculum in foreign language instruction grades 9-12. The field experience emphasizes principles of classroom and behavior management as well as ways to put theory into practice. Field experience is required. Proof of liability insurance is required for field experience.

FLED 4414:Technology for Foreign Language Teaching

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: FLED 4408 and FLED 4410 **Corequisite:** FLED 4412

This course introduces teacher candidates to the use of instructional technology in foreign language education. Specifically, teacher candidates learn to evaluate, design, create, and implement a variety of technology-enhanced teaching and learning materials. A particular focus is placed on forming the essential connections between Second Language Acquisition theories, sound pedagogical approaches, and cutting edge technologies to ensure that teacher candidates can integrate technology meaningfully into P-12 curriculum planning and teaching practices.

FLED 4650:Yearlong Clinical Experience I

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: Admission to Teacher Education, FLED 4408, FLED 4410, FLED 4412, FLED 4414, Issued Pre-Service Certificate, and Admission to Yearlong Clinical Experience. **Corequisite:** FLED 4651, EDUC 4610, and INED 3305

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in Foreign Language Education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars.

FLED 4651:FLED Seminar I

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: FLED 4408, FLED 4410, FLED 4412, FLED 4414, Pre-Service Certificate, and Admission to Yearlong Clinical Experience. **Corequisite:** FLED 4650

This FLED Seminar I course corresponds to the FLED Yearlong Clinical Practice I course and is designed to support teaching candidates in successful completion of edTPA tasks and assessments, focusing as well on the ethics and practice of culturally-responsive foreign language pedagogy and instruction.

FLED 4660:FLED Yearlong Clinical Experience II

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: FLED 4650, FLED 4651, and eligibility to take GACE. **Corequisite:** FLED 4661

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in foreign language education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment.

FLED 4661:FLED Seminar II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: FLED 4650 and FLED 4651 ***Corequisite:*** FLED 4660

This FLED Seminar II course corresponds to the FLED Yearlong Clinical Practice II course and is designed to support teaching candidates in successful completion of edTPA tasks and assessments, focusing as well on the ethics and practice of culturally-responsive foreign language pedagogy and instruction.

FLED 4670:FLED Yearlong Clinical Internship I

0 Class Hours 20 Laboratory Hours 5 Credit Hours

Prerequisite: FLED 4410, FLED 4412, FLED 4408, FLED 4414, and FL 4400 ***Corequisite:*** FLED 4671

This course is the first semester of an intensive and extensive supervised, credit-earning yearlong clinical work experience in Foreign Language education for student in the Alternative Teacher Preparation program.

FLED 4671:FLED Internship Seminar I

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: FLED 4410, FLED 4412, FLED 4408, FLED 4414, FL 4400 ***Corequisite:*** FLED 4670

This FLED Internship Seminar I course corresponds to the FLED Yearlong Clinical Internship I course and is designed to support teaching candidates in successful completion of edTPA tasks and assessments, focusing also on the ethics and practice of culturally-responsive foreign language pedagogy and instruction. This course provides candidates the opportunity to work under the guidance of the FLED instructor and engage in discussion of issues related to language teaching with the FLED ATP cohort.

FLED 4680:FLED Yearlong Clinical Internship II

0 Class Hours 16 Laboratory Hours 4 Credit Hours

Prerequisite: FLED 4670 and FLED 4671 ***Corequisite:*** FLED 4681

This course is the second semester of an intensive and extensive supervised, credit-earning yearlong clinical work experience in Foreign Language education for students in the Alternative Teacher Preparation program.

FLED 4681:FLED Internship Seminar II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: FLED 4670 and FLED 4671 ***Corequisite:*** FLED 4680

This FLED Internship Seminar II course corresponds to the FLED Yearlong Clinical Internship II course and is designed to support teaching candidates in successful completion of edTPA tasks and assessments, focusing also on the ethics and practice of culturally-responsive foreign language pedagogy and instruction. This course provides candidates the opportunity to work under the

guidance of the FLED instructor and engage in discussion of issues related to language teaching with the FLED ATP cohort.

French

FREN 1001:Introduction to French Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to French language and culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of French and Francophone cultures.

Notes: Not open to native speakers of French.

FREN 1002:Introduction to French Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school French or FREN 1001 or the equivalent.

Introduction to French language and culture, "Part II," stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of French and Francophone cultures.

Notes: Not open to native speakers of French.

FREN 2001:Intermediate French Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school French or FREN 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of French.

FREN 2002:Intermediate French Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school French or FREN 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Course will serve as a transition between intermediate and upper-level courses in French.

Notes: Not open to native speakers of French.

FREN 2003:Accelerated Intermediate French Language and Culture

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: Two years of high school French or FREN 1002

This accelerated intermediate level course in French language and culture covers in one semester the materials presented in FREN 2001 and FREN 2002. The course stresses continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of French and Francophone cultures.

FREN 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the department chair.

Covers special topics and study abroad courses external to course offerings at the intermediate level.

FREN 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 2002 or FREN 2003

This course emphasizes skill development and refinement in the areas of critical reading and writing in French. Designed to give students extensive experience in reading and writing in French, the course focuses on the relationship between writing and reading, and on ways to improve one through the other.

FREN 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 2002 or FREN 2003

This course stresses expansion of effective listening comprehension and speaking skills through culturally and linguistically appropriate activities.

FREN 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 2002 or FREN 2003

This course provides a general review of grammar through composition and other written activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

FREN 3304:Literature and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3200 and FREN 3303

An introduction to French and Francophone literature and culture from the Middle Ages to 1820. Students examine literary and artistic movements as well as cultural issues of the period.

Notes: Readings and discussion in French.

FREN 3305:Literature and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3200 and FREN 3303

An introduction to French and Francophone literature and culture from 1820 to the present. Students examine literary and artistic movements as well as cultural issues of the period.

Notes: Readings and discussion in French.

FREN 3390:Upper-division Study Abroad in French

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or Senior status and permission of the department chair.

This course fulfills the study abroad requirement for the B.A. in Modern Language & Culture with a primary language of French. The content of the course may vary depending on available course offerings in the foreign institution. The chair of the Department of Foreign Languages must preapprove the use of this course as partial fulfillment of the requirements for the degree in Modern Language & Culture.

FREN 3398:Internship

1-9 Credit Hours

Prerequisite: FREN 3302 and FREN 3303 or permission of the instructor.

Supervised, credit-earning work experience of one semester requiring use of French in the work place.

Notes: Prior approval by department coordinator and internship supervisor is required. No more than three semester hours may be applied toward the major.

FREN 4400:Directed Study

1-3 Credit Hours

Prerequisite: FREN 3302 and FREN 3303 or permission of the instructor.

Covers special topics and seminars external to course offerings that allow a student to work individually with an instructor.

Notes: Requires prior approval by instructor and department chair.

FREN 4402:Contemporary Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3304 or FREN 3305

An examination of the historical, social, and political contexts of the contemporary French and

Francophone experience through the analysis of cultural representations such as film, media, plastic arts, music, and literature.

Notes: Readings and discussion in French.

FREN 4404:Commercial French

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3302 and FREN 3303 or permission of the instructor.

An in-depth study of business practices and the language of business in the French-speaking world. This course will prepare students for the exam for the Certificat Pratique de Francais Commercial given by the Paris Chamber of Commerce.

FREN 4434:Topics in Language, Literature, and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3304 or FREN 3305

An exploration of a period, movement or genre in literature, a topic in culture, or language related issues. Topics are chosen for their significance and impact on French and Francophone cultures.

Notes: Course taught in French.

FREN 4456:Advanced Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3302 and FREN 3303

Advanced study of grammar from a linguistic perspective. Provides an overview of phonetics, phonology, morphology, and syntax. Exposes students to dialectical variations of the French-speaking world. Stresses development of oral proficiency.

Notes: Course taught in French.

FREN 4490:Special Topics in French

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3302 or permission of the instructor.

Special topics relevant to the study of French speaking societies.

FREN 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FREN 3304 and FREN 3305 and senior status.

This is a capstone course designed to synthesize and connect the student's prior academic experiences in the major and related fields of study. Students will prepare a reflective essay and a research paper to present to the faculty.

Notes: Papers and presentation in French.

Gender and Womens Studies

GWST 1102:Love and Sex

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the phenomena of love and sex from multi- and interdisciplinary perspectives in a global context. Students critically evaluate the personal and social significances of intimacy and analyze the ethical, political, and cultural dimensions of love and sex through a variety of media. Topics may include family, marriage and monogamy, sexual identity and orientation, reproductive politics, sex work, consent, and representation.

GWST 2000:Introduction to Gender and Women's Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of the foundational figures, themes, and texts in the history of gender and women's studies in an interdisciplinary and global context. Themes to be addressed include sameness vs. difference feminisms; the sex/gender distinction; internal and external critiques of Western feminisms; transnational and global feminisms; feminism's relationship to critical race studies, postcolonialism, queer theory; and gender, trans-gender, and masculinity studies.

Notes: All sections include a required supervised civic and community engagement project.

GWST 2050:Global Perspectives on Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers global perspectives and contexts within which gender can be explored, analyzed, and critiqued. The course will be driven by cross-cultural and comparative study and may include analysis of the construction of gender in relation to social practices, the law, tradition, religion, institutional culture, economics, and popular culture.

Notes: This course may be repeated for credit with prior approval.

GWST 3001:Feminist Theories

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Feminist Theories involves the study of concepts and ideologies that articulate and define theories of feminism through the intersections of gender with race, class, nationality, sexuality, and other social differences. Students will engage with several foundational and vibrantly contested conversations within feminist theory that draw from a variety of theoretical perspectives, including those influenced

by liberalism, Marxism/socialism, psychoanalysis, radical feminism, post-modernism, and post-colonialism.

GWST 3010:Queer Theory & Sexuality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Queer Theory & Sexuality is an interdisciplinary course that considers the global emergence and significance of theories and practices that 1) refute and destabilize the notion of an essential, normative sexuality and gender and 2) suggest that sexuality is fluid and varied and is constructed by social, political, and economic factors. The course surveys a broad array of scholarship and other forms of print and non-print media and explores a range of topics that might broadly be identified as 1) practices, identities, and communities; 2) the cultural construction of gender and sexuality; 3) sexual citizenship and the nation-state.

GWST 3020:Black Feminisms

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

A survey of historical and contemporary black feminist traditions. Core themes could include the intersections of race and gender with class, sexuality, generation, and place; black feminist thought and its relationship to womanism and other feminisms; outsider-within positionality of black women; black feminist epistemologies; mediated representations of black women's identities; black lesbian feminism; commodification of black women's bodies; black women's global resistance to racism and sexism.

GWST 3030:Gender in Popular Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

An examination of gender as depicted in popular culture texts. Focusing on one medium (e.g., film, television, periodicals, music) or surveying a range of popular culture forms, students will critique depictions of gender; practice using theories and methods from gender and women's studies to understand popular culture's role in shaping gender identity; and do research on gender in the context of popular culture.

GWST 3060:Gender in the Workplace

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Gender and the Workplace examines work and professional-related gender issues from several perspectives, including the legal, sociological and economic viewpoints. Students will engage with a variety of relevant and timely topics that include gender stereotyping and discrimination, career development, diversity issues, sexual harassment, and work/life balance. As part of the course requirements, students will complete a civic/community engagement assignment relative to the course.

GWST 3070:Gender and Social Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers an interdisciplinary approach to the social and historical constitution of gender in a social justice framework. Students will explore a wide variety of critical and literary materials to analyze interlocking systems of hierarchy and domination; to evaluate gendered experience across local, regional, national, and global contexts; and to identify critical responses to systemic forms of oppression in the contemporary world.

GWST 3080:Masculinity Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Masculinities Studies is an interdisciplinary introduction to this growing and often contested field. Using a variety of texts, students explore historical, political, and theoretical development, as well as social and cultural constructions, of the category "masculinity." Students map central debates surrounding masculinity, including why it is frequently thought to be "in crisis." The course examines political and social movements related to masculinity as it considers masculinity in relation to other theories, including feminist, postcolonial, etc.

GWST 3090:Transnational Feminisms

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Transnational Feminisms is an interdisciplinary study of the economic, social, and political consequences of the phenomenon known as globalization, particularly those consequences that affect issues of gender. As such, students analyze transnational feminisms, studying both the opportunities and challenges that are inherent in transnational feminist scholarship and activism. Through critical inquiry into a variety of texts, the course dynamically reconceptualizes relationships between women and nation; between gender and globalization; and between feminist theory and practice.

GWST 3100:Gender and the US South

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Gender and the U.S. South examines intersections between cultural norms and values of the southern United States with gender and related identity categories such as race, class, and sexuality. The course invites students to consider ways that gender, race, class, and sexuality are complicated by and related to regional ideas, history, and identity. Additionally, the course explores gender in the U.S. South in connection with other cultures in the Global South.

GWST 3200:Disability & Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is an interdisciplinary study of social understandings of disability, particularly its relationship to categories of sex/sexuality, gender, and identity. Using examples drawn from various points in history, various countries around the world, and various disability categories (psychiatric/psychosocial, intellectual, physical, etc.), students read a variety of texts including ethnographies, autobiographies, and case studies in order to understand the variety of the disability experience. This class draws from critical disability studies, feminist, and queer theory.

GWST 3398:Internship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GWST 3000 and approval of the internship coordinator.

A structured off-campus experience in a supervised setting that is chosen in relation to student's focus and interests. Practical experience is combined with a research approach that investigates issues relevant to the internship. Students will meet with the internship coordinator to develop an appropriate plan that will lead to the writing of a research-oriented paper or research project, a required part of the internship. Students should consult with the internship coordinator at the midpoint of the semester prior to the internship to choose from an approved list of internship sites, none of which may be with a current employer

GWST 4000:Research in Gender and Women's Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GWST 2000 and completion of 60 credit hours.

A study of research models of scholarship in gender and women's studies, combined with an opportunity for students to conduct a research project of their own. Students will read examples of outstanding research and survey discipline-based scholarship focusing on gender and women's studies. Topics for studying methods could include debates regarding different methodologies, critiques of traditional research methodologies, integrating feminist theory with scholarship, and ethical questions associated with producing research in gender and women's studies.

Notes: This course should be taken as the final course of the GWST minor.

GWST 4040:Major Topics & Figures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course offers an in-depth examination of a major topic or major figure relevant to the field of gender and women's studies. Students will learn how to conduct interdisciplinary research and employ gender analysis through the advanced study of one major thinker or the advanced, comparative study of a set of thinkers grouped according to a major topic.

Notes: Specific content may vary, so course may be repeated.

GWST 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Another GWST course, approval of the instructor, and approval of the program coordinator.

The Directed Study is an advanced, individual study of a selected topic not offered in the regular curriculum. Students may conduct in-depth, gender-related research under the supervision of a faculty member. The directed study is student driven, and students are responsible for selecting the subject matter to be studied, method, data sources, and theoretical question(s), all under the direction of a faculty member.

GWST 4498:GWST Certificate Colloquium

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Declaration of GWST certificate.

This course provides a capstone experience for students pursuing a GWST certificate. Students examine interdisciplinary perspectives on knowledge, engage in cultural and intellectual activities beyond the classroom, and participate in an online discussion forum.

GWST 4499:Senior Seminar in GWST

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GWST 2000 and completion of sixty credit hours.

This capstone course is designed to complete the major by integrating prior academic experiences in Gender and Women's Studies. Students research, write, and present a senior thesis that addresses the relationship between theory and practical experience. A seminar format is used throughout the course.

Geographic Information Systems

GIS 3398:Internship

0 Class Hours 0 Laboratory Hours 1-9 Credit Hours

Prerequisite: (GEOG 4405 or GEOG 4500) and permission of the GIS program director.

A structured off-campus experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of GISc faculty and the internship supervisor. Sites must be selected in advance of the semester of the internship and must be approved by the director of the GISc program.

Notes: Geography students seeking a B.A. in Geography need to take GEOG 3398.

GIS 4100:Directed Applied Research

0 Class Hours 0 Laboratory Hours 1-6 Credit Hours

Prerequisite: (GEOG 3305 or GEOG 3315) and consent of instructor and chair

This course offers students an opportunity to investigate geographically-oriented concepts and issues by assisting in faculty-led research or scholarship. Course content and instructional methodologies are identified by the faculty's needs and expectations.

GIS 4415:Practicum in Geographic Information Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (GEOG 4405 or GEOG 4500) and permission of the GIS program director.

This is a capstone course for the GIS Certificate Program and is designed to integrate students' prior training in geospatial theory, technologies and/or data analyses through the use of geographic information systems in on-site work settings. Student experiences are applied in nature and are on campus or with selected private or public organizations in the community. Students find and obtain their own practicums, which require the program director's approval.

Geography

GEOG 1101:Introduction to Human Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is a survey of global patterns of resources, population, culture, and economic systems. Emphasis is placed upon the factors contributing to these patterns and the distinctions between the technologically advanced and less advanced regions of the world.

GEOG 1102:Earth from Above

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This is a survey course for any student with an interest in geography, maps, or geospatial data and technologies. Students will obtain fundamental geographic principles of place and space, and learn introductory geospatial techniques such as map reading, coordinate systems, and scale by using global positioning satellite receivers, aerial photos, satellite imagery, and Google Earth technologies. The course is designed to give students hands-on experience to collect, manipulate, analyze, and understand geospatial data.

GEOG 1112:Weather and Climate

3 Class Hours 1 Laboratory Hours 4 Credit Hours

This course examines aspects of physical geography, specifically earth-sun relationships, atmospheric processes, climate and weather patterns, and vegetation patterns and principles. Emphasis is on the distribution and interactions among these environmental variables as well as the impact humans have had on these natural systems. The lab focuses on practical and applied aspects of these environmental systems. Lab work includes maps reading, data collection, and data analysis.

GEOG 1113:Introduction to Landforms

3 Class Hours 1 Laboratory Hours 4 Credit Hours

This course examines aspects of physical geography such as plate tectonics, rocks and soils, river systems, coastal systems, glaciers, and karst topography. Emphasis is on the evolution and distribution of these physical landforms and resultant landscapes, as well as the processes that have shaped them. The lab focuses on practical and applied aspects of landform patterns and processes. Lab work includes the use of topographic maps and aerial photographs, the identification of rocks and minerals, and the analysis of landscape features.

GEOG 1125:Resources, Society, and the Environment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the interactions between physical systems and human activities, and their effects on environmental quality and sustainability. Students recognize the geographic and environmental perspectives related to such topics as population and resource consumption, food production, water and air quality, energy, and natural resources.

GEOG 1130:World Regional Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An introduction to world regions through the context of human geography. The course focuses on basic geographic concepts to analyze social, economic and political issues at local, regional and global scales. Elements of fundamental physical geography will be discussed to illustrate the spatial relationships between the physical environment and human geography.

GEOG 2200:Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ANTH 1102, or GEOG 1101, or GEOG 1130) and (GEOG 1112 or GEOG 1113) and GEOG 1102

This course is designed to prepare students for scientific research in the environmental field and related disciplines. It introduces students to a variety of spatial and environmental research concepts, approaches, methods and techniques. This course guides students through aspects of scientific research.

GEOG 2391:Professionalism and Ethics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1102 or GEOG 1112 or GEOG 1113 or GEOG 1125 or GEOG 1130

This course develops the current professional accomplishments and abilities of students for future professional settings. Students recognize soft skills that promote personal and professional development and competences, and prepare portfolios for their chosen professions. Students also examine ethical problems faced by professionals, and focus on issues of personal decision making and public policy.

GEOG 3000:Geography of Beer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (GEOG 1101 or GEOG 1102 or GEOG 1112 or GEOG 1113 or GEOG 1125 or GEOG 1130 or GEOG 2200) and Students must be 21 years of age.

This course examines the geographic origins of beer and brewing, and how location influences beer types, styles, and varieties. Students explore the physical, cultural, and economic dimensions that showcase the importance of place, as well as the local to global factors that influence the creation and distribution of beer.

GEOG 3300:Urban Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

An analysis of the location and distribution of urban centers, urban land uses and the geographical aspects of general urban issues.

GEOG 3305:Introduction to Cartographic Processes

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to the processes and technology of cartography, the science and art of map making. The foundations of map construction and design are presented from theoretical and applied perspectives. Students use hands-on and computerized mapping, leading to a basic appreciation of the map as the integral component of geographic information systems data analysis. This course does not count as an upper-division GEOG requirement toward the degree program for SSED majors.

GEOG 3310:Historical Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A global approach to the study of the geographic factors affecting historical events associated with the human exploration and settlement of the planet. The influence of geography on economic and political changes over time will be reviewed for selected historical phenomena.

GEOG 3312:Geography of Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A geographical survey of Europe and its environs, with emphasis on the tremendous diversity found in both the physical and human geography of the region. Economic, political and cultural geography are examined within the framework of the forces that are rapidly restructuring the landscapes of Eastern and Western Europe.

GEOG 3315:Introduction to Geographic Information Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students are introduced to the basic design of state-of-the-art GIS and its analytical capabilities. Topics may include: Geodatabases, applications in GIS, map projection information, raster/vector data models, introduction to available data on the internet, and basic GIS analytical functions such as querying and overlaying. The course uses ArcGIS 10 to introduce these concepts in a hands-on environment.

GEOG 3320:Political Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

This course is intended to explore the following concepts and issues from a geographical perspective: territoriality, theories of the state, spatial expressions of ideology, boundary issues, imperialism, geopolitics, nationalism, electoral geography, national identity, religion and governing power in a spatial context, and cultural and/or economic hegemony.

GEOG 3330:Economic Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A geographic analysis of global resources and economic growth. The underlying theme of the course is the impact of space (location, distance, area, boundaries) on economic decision-making. Topics to be discussed include population, transportation, rural and urban land use, industrial location, natural resource management, and development/underdevelopment. Differing spatial theories will be employed to explain the global economy in transition.

GEOG 3340:Cultural Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A thematic approach is applied to analyze human cultures, to examine world cultural regions, to note the spread of cultural traits, to interpret interactions between culture and environment, and to appreciate multiple traits of cultures and cultural landscapes. The five themes of region, diffusion, ecology, integration, and landscape are used to explore historical and contemporary issues of population, agriculture, politics, language, religion, ethnicity, popular culture, and urban spaces. The philosophy of the course is based on the premise that the built environment is a spatial expression of the beliefs, attitudes, and practices of a people.

GEOG 3345:Population Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

This course examines key issues that affect population patterns and change at different geographic scales, including fertility, mortality, demographic change, race and ethnicity, internal and international

migration, refugee movement, and internal displacement. Students gain a theoretical framework to understand local, national, regional, and global population dynamics, and an applied framework to assess contemporary issues such as population growth, labor migration, refugee resettlement, immigration policy, and transnational identity.

GEOG 3350:Geography of Sub-Saharan Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A spatial survey that focuses on the physical, historical, cultural, and economic forces at work on the African continent, south of the Sahara. Special emphasis is placed on the roles of the natural environment, population geography, historical geography, agriculture, economic development, and other factors that shape the landscapes of Sub-Saharan Africa.

GEOG 3360:Geography of Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

This course is designed as a survey of the physical and cultural geography of the Asian region. Students will be provided with an overview of Asian landform features and climate coupled with a discussion of human interaction with a variety of Asian landscapes in terms of historical, political, economic, religious, and ethnic factors using geographic and cartographic analytical techniques.

GEOG 3370:Geography of Latin America and the Caribbean

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

This course studies the major physical, cultural and geopolitical sub-regions in Latin America and the Caribbean. In-depth geographic awareness and knowledge of the Latin American and Caribbean region is gained from the study of physical landscapes, natural hazards, economics, historical geography, environmental and resource issues, cultures and societies, urbanization, development, current events, and prospects for the future.

GEOG 3380:Geography of North America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

A geographical survey of North America emphasizing the significant diversity found in both the physical and human geography of the region. Past, current and changing locational arrangements of people and resources are examined as they relate to economic, political, urban and cultural geographic perspectives within the framework of the forces that have created the variety of landscapes of the North American continent.

GEOG 3390:Geography of the Middle East and North Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1101 or GEOG 1130

This course is a spatial survey that focuses on the physical, historical, cultural, and economic forces at work in the Middle East & North Africa. Special emphasis is placed on the roles of the natural environment, demography, historical geography, agriculture, economic development, and other factors that shape the landscapes of this particular region.

GEOG 3398:Internship

1-9 Credit Hours

Prerequisite: GEOG 4405 for GIS internships, or at least 15 hours of upper division geography courses for non-GIS internships.

A structured off-campus experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of geography faculty and the internship supervisor. Those seeking experience in a GIS environment will work under the guidance of the GIS Program Director. Sites must be in advance of the semester of the internship and must be approved by the student's advisor or internship coordinator.

Notes: This course is for GEOG majors. GIS majors should register for GIS 3398 and GIS certificate students should register for GIS 4415. A departmental internship orientation session is scheduled once a semester.

GEOG 3700:Introduction to Environmental Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Any general education science lab sequence.

This course is designed to give students an overview of the human dimensions of US environmental issues and is a core course for the environmental studies minor. From a geographical perspective, the course explores how US environmental laws, ethics, viewpoints and economics interact, shape, and manifest themselves across the landscape. Students will be introduced to technologies, such as geographic information systems and satellite images, used by geographers to study environmental issues. The course will examine spatial patterns arising from the ways in which we manage our natural resources and environment. Natural resources such as water, air, soil, energy and fossil fuels will be used as examples in the discussion of spatial patterns arising from resource extraction, transportation and use.

GEOG 3710:Local & Global Sustainability

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 and 75 credit hours.

This course is a critical review of the concept of sustainability and sustainable development in theory and practice. Students analyze ideological arguments, sustainability indicators and other tools, and case studies of sustainability projects worldwide. Students examine different interpretations of

sustainability across the globe with special attention given to how sustainability is viewed and implemented in both the developed (core) and developing (periphery) regions.

GEOG 3800:Climatology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1112

This course examines the nature of Earth's climate and the physical processes that determine the variations in climate and weather worldwide. Emphasis is on the interactions among the atmosphere, the hydrologic cycle, and earth's surface. Aspects of climate change will also be addressed.

GEOG 3850:Global Climate Change

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1112

This course gives students an overview of Global Climate Change by bringing together science, impacts, abatement technologies, and policy solutions. From an interdisciplinary perspective with geographical emphasis, it leads students to examine the scientific basis, current scientific understanding, future projections, and impacts of climate change, uncertainties and debates on climate change, and technologies and policies to deal with climate change, through lecture presentations, group projects, readings, exams, and a research paper.

GEOG 3900:Biogeography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1112

This course examines the geographic distribution of plants and animals from historical, cultural, and ecological perspectives. Emphasis is on the local, regional, and global patterns and processes that have influenced the distribution and evolution of plant and animal species. Aspects of environmental change and conservation is also addressed.

GEOG 4100:Directed Applied Research

1-6 Credit Hours

Prerequisite: Any upper-division geography course; consent of instructor and chair.

This course will offer students an opportunity to investigate geographically-oriented concepts and issues by assisting in faculty-led research or scholarship. Course content and instructional methodologies will be identified by the faculty's needs and expectations.

GEOG 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of advisor, instructor, major area committee and department chair prior to registration.

Covers special topics and seminars external to regular course offerings.

GEOG 4405:Advanced Geographic Information Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 3305 and GEOG 3315

This course builds upon basic concepts addressed in the Introduction to Geographic Information Systems (GIS) course. The use of topological data procedures and relational database concepts within the GIS context will be investigated along with procedures relevant to building Geodatabases, including map projections, coordinate systems, digitizing vectors, and transformations. Fundamental spatial analysis operations are expanded upon, including spatial query, address matching, spatial aggregations, buffering, polygon overlay, and point-in polygon operations.

Notes: ArcGIS software is used in class.

GEOG 4410:Introduction to Remote Sensing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 3320

Students investigate various mapping techniques used in GIS and geospatial technologies. These techniques can include data collection and management, mapping and visualization, 3D GIS, spatial analytics, and scripts and automation. Students demonstrate their comprehension of GIS techniques by way of exercises that render the production of digital maps. Notes: ArcGIS software is used in this course.

GEOG 4490:Special Topics in Geography

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of interest to faculty and students.

GEOG 4499:Senior Seminar in Geography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: At least 18 hours upper-division required geography courses, and permission of the instructor.

Required capstone course for all geography and GISc majors. This seminar helps students apply their geographic knowledge and skills culminating in a research project. The course also includes preparation for graduate study and job opportunities in geography.

GEOG 4500:Advanced Topics in Geospatial Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (GEOG 3305 and GEOG 3315) or admission to GIS Certificate program

This course examines advanced topics in geospatial science that fit the needs and interests of students and faculty. Example topics include ArcGIS server, online mapping, geospatial databases, geodatabase modeling, python programming, global positioning systems, and spatial statistics in GIS.

This course is theme-based and does not focus solely on any one geospatial technique or application. The course can be taken more than one so long as it is not identical in content.

GEOG 4700:Geomorphology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 1112 or GEOG 1113

This course examines Earth surface processes and landforms, including tectonic, volcanic, hillslope, karst, fluvial, glacial, periglacial, eolian, and coastal geomorphic systems, as well as weathering and soils. Relationships between environmental change and the evolution of landscapes are addressed.

Geology

GEOL 1121K:Introductory Geosciences I

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: A grade of 'C' or better in any two 1000-level or 2000-level science courses

This course covers Earth materials and processes. This course introduces students to the study of Earth, and processes which modify it over time. The course provides an overview of plate tectonics, describes relationships between rocks and structures, examines the role of water in landscape evolution, and places an emphasis on the environmental applications of Earth processes. Lecture and lab familiarize students with the methodology and tools of the geologist, and emphasize the connections between the components of the Earth system.

German

GRMN 1001:Introduction to German Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to German language and culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of German culture.

Notes: Not open to native speakers of German.

GRMN 1002:Introduction to German Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school German, or GRMN 1001, or the equivalent.

Introduction to German language and culture, part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of German culture.

Notes: Not open to native speakers of German.

GRMN 2001:Intermediate German Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school German, or GRMN 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of German.

GRMN 2002:Intermediate German Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school German, or GRMN 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Course will serve as a transition between intermediate and upper-level courses in the language.

Notes: Not open to native speakers of German.

GRMN 2003:Accelerated Intermediate German Language and Culture

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: Two years of high school German or GRMN 1002

This accelerated intermediate level course in German language and culture covers in one semester the materials presented in GRMN 2001 and GRMN 2002. The course stresses continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of German culture.

GRMN 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 or GRMN 2003

This course emphasizes skill development and refinement in the areas of critical reading and writing in German. Designed to give students extensive experience in reading and writing in German, the course focuses on the relationship between writing and reading, and on ways to improve one through the other.

Notes: This course is taught in German.

GRMN 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 or GRMN 2003

In this course, students learn to express themselves verbally, using role-play, skits and extemporaneous speaking on a variety of topics including basic situations as well as discussions of professional areas. This course is taught in German.

GRMN 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 or GRMN 2003

This course provides an introduction to the more difficult points of German grammar, syntax and style. In addition to the development of writing skills, students will concentrate on expanding their active vocabulary. This course is taught in German.

GRMN 3304:Literature and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 3200 or GRMN 3302 or GRMN 3303

An introduction to the literature and culture of Germany and German-speaking countries from the Middle Ages to 1848. Students examine literary and artistic movements as well as cultural issues of the period.

Notes: Readings and discussion in German.

GRMN 3305:Literature and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 3200 or GRMN 3302 or GRMN 3303

An introduction to the literature and culture of Germany and German-speaking countries from 1848 to the present. Students examine literary and artistic movements as well as cultural issues of the period.

Notes: This course is taught in German.

GRMN 3390:Upper-division Study Abroad in German

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 and permission of the department chair.

This course fulfills the study abroad requirement for the B.A. in Modern Language & Culture with a primary language of German. The content of the course may vary depending on available course offerings in the foreign institution. The chair of the Department of Foreign Languages must preapprove the use of this course as partial fulfillment of the requirements for the degree in Modern Language & Culture.

GRMN 3398:Internship

1-9 Credit Hours

Prerequisite: GRMN 3302 or permission of the instructor.

Supervised, credit-earning work experience of one semester requiring use of German in the work place.

Notes: Prior approval by department coordinator and internship supervisor is required.

GRMN 4400:Directed Study

1-3 Credit Hours

Prerequisite: GRMN 2002 or permission of the instructor.

Covers special topics and seminars external to course offerings that allow a student to work individually with an instructor.

Notes: Requires prior approval by instructor and department chair.

GRMN 4402:Contemporary Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 3304 or GRMN 3305 or permission of the instructor.

This course is an examination of the historical, social, and political contexts of the contemporary experience in the German-speaking world through the analysis of cultural representations such as film, media, plastic arts, music, and literature. Readings and discussions are in German.

GRMN 4404:Commercial German

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 or permission of the instructor.

An in-depth study of business practices and the language of business that focuses on verbal and written communication as well as economic, social and political factors that are important to the conduct of business in the German-speaking world.

Notes: This course is taught in German.

GRMN 4434:Topics in Language, Literature, and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 3304 or GRMN 3305 or permission of the instructor.

This course explores a period, movement or genre in literature, a topic in culture, or language-related issues. Topics are chosen for their significance and impact on German-speaking cultures. The course is taught in German.

GRMN 4456:Advanced Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 3303 or permission of the instructor.

This course is an advanced study of grammar from a linguistic perspective. It provides an overview of phonetics, phonology, morphology, and syntax. The course exposes students to dialectical variations of the German-speaking world and stresses development of oral proficiency. The course is taught in German.

GRMN 4490:Special Topics in German

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: GRMN 2002 or permission of the instructor.

Selected topics of interest to students and faculty.

GRMN 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Senior status and permission of the instructor.

This is a capstone course designed to synthesize and connect the student's prior academic experiences in the major and related fields of study. Students will prepare a reflective essay and a research paper to present to the faculty. Papers and presentations are in German.

Health and Physical Education

HPE 1010:Beginning Flag Football

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques, decision-making strategies, and knowledge necessary for successful participation in the sport of flag football.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1030:Aerobic Conditioning/Weight Training

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in a variety of cardiovascular fitness related activities and weight training principles.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1055:Archery

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques, decision-making strategies, and knowledge necessary for successful participation in the sport of archery.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1060:Beginning Badminton

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of badminton.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1075:Beginning Basketball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of basketball.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1076:Intermediate Basketball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1075, or instructor permission

This course is designed to reinforce fundamental basketball skills and introduces advanced offensive and defensive tactics as well as strategies commonly employed in the sport of basketball.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1080:Beginning Softball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of slow pitch co-ed softball.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1090:Dance: Ballet

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in classical ballet dance.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1130:Dance: Jazz

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in basic jazz dance.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1140:Educational Dance and Gymnastics

2 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: HPE Majors only

This course focuses on the knowledge, motor skills, and fundamental techniques of international folk and social dance forms, creative movement and rhythmic activities, and educational gymnastic skills.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1150:Dance: Modern

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in basic modern dance.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1160:Rhythmic Activities for Children (P-5)

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Rhythmic and movement concepts used in expressive movement and as a foundation for motor skills included. Strategies for teaching creative movement will be addressed. Field experience with young children included.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1170:Folk/Square/Social Dance

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques, and knowledge appropriate for participation in folk, square, and social dance. Will include selected folk dances representing different cultures around the world. Circle, contra, and western style square dance will be emphasized. Social dances shall include Fox Trot, Waltz, Swing, and various Latin dances.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1185:Beginning Soccer

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of team soccer.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1195:Intermediate Soccer

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques, decision-making strategies, and knowledge necessary for successful participation in intermediate soccer.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1210:Golf

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in golf.

Notes: Additional fee required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1220:Beginning Cycling

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course provides an overview of bicycling as a fitness and recreational activity. Basic cycling techniques, safety, training, fitness principles, and equipment maintenance are among the major focal points of the course.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1230:Martial Arts

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful

participation in the development of martial arts and self defense skills.

Notes: Additional fee required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1235:Intermediate Martial Arts

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1230

This course focuses on motor skill development, techniques, and knowledge appropriate for participation in advanced martial arts and self-defense.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1240:Beginning Mountain Biking

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course provides an overview of mountain biking as a fitness and recreational activity. This course focuses on basic mountain biking techniques, safety, training, fitness principles, and equipment maintenance.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1250:Outdoor Recreational Pursuits

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1310 or permission of the instructor.

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation and appreciation of outdoor recreation activities. Units represented may include backpacking, camping, orienteering and canoeing. Weekend trips, off campus field experiences and additional fee required.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1260:Beginning Team Handball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of team handball.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1270:Ultimate Frisbee and Disc Golf

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in popular flying disc sports, including ultimate Frisbee and disc golf.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1280:Beginning Rock Climbing

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and knowledge appropriate for the successful participation in rock climbing.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1285:Intermediate Rock Climbing

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1280

This course develops the skills of experienced climbers, fostering their abilities to enter both the competitive indoor and outdoor climbing environments.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1290:Stunts & Tumbling/Gymnastics

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in the development of stunts, tumbling and gymnastic skills.

Notes: Additional fee required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1310:Swimming: Beginning

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Motor skill acquisition, fundamental techniques and knowledge appropriate for the successful

completion of the American Red Cross Beginning through Intermediate swimming levels. Course is designed for the non-swimmer or individual with limited aquatic experience.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1330:Swimming: Intermediate

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1310 or permission of the instructor

Motor skill acquisition, fundamental techniques and knowledge appropriate for swimming and water safety. Successful completion of this course corresponds to standards for the American Red Cross Swimmer level.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1350:Swimming: Lifeguard Training

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1330 or permission of the instructor

Motor skill acquisition, fundamental techniques and knowledge appropriate to become certified in American Red Cross Lifeguard Training.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1390:Beginning Tennis

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is designed to introduce tennis to the student at the beginning level, encompassing basic skills, rules, terminology, basic strategy, and safety through drills and game play.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1395:Intermediate Tennis

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is designed to reinforce fundamental tennis skills and introduces advanced offensive and defensive skills. The focus of the course will be on developing successful singles and doubles game-play strategies.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1430:Beginning Volleyball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is designed to introduce volleyball to the student at the beginning level, encompassing basic skills, rules, terminology, basic strategy, and safety through drills and game play.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1435:Intermediate Volleyball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is designed to reinforce fundamental volleyball skills and introduces advanced tactics, strategies and offensive/defensive systems.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1450:Scuba Diving

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1310 or permission of the instructor

This course is designed to develop fundamental concepts, principles, and techniques of sport SCUBA diving. Course covers selection and maintenance of gear, snorkeling skills, physiology of diving, use of dive tables, diving environment, and an emphasis on safe diving practices. PADI open water certification available but not required to fulfill HPE credit.

Notes: Additional fee and mask, fins, and snorkel required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1470:Self Defense

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course develops self defense tactics and the knowledge of personal safety. Topics may include but are not limited to hand and leg strikes, various escapes and releases, safety in the car and home, sexual harassment, date rape, self defense and the law, and sexual abuse of children.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1480:Beginning Yoga

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course addresses basic principles, philosophies, and practices of yoga. The class will include

basic anatomy principles, terminology, strength, flexibility, and balance activities to develop an individualized yoga program.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1485:Intermediate Yoga

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1480 or instructor approval

This course addresses intermediate and advanced asanas, philosophies, and practices of yoga. The class will also include advanced conditioning movements.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1490:Beginning Pilates

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course addresses basic principles, philosophies, and practices of Pilates. The class will include basic anatomy principles, terminology, alignment, strength, and flexibility exercises to develop an individualized Pilates program.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1500:Beginning Sand Volleyball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and strategic knowledge necessary for successful participation in the sport of sand volleyball.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1505:Intermediate Sand Volleyball

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1500 or permission of instructor

This course reviews basic motor skills necessary for successful participation in sand volleyball, as well providing a primer for advanced motor skills, tactics, and strategies for students striving to play the sport at a higher or tournament level.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1510: Fitness Swimming

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1310 or permission of the instructor

This course provides opportunities for students with good swim skills to increase their fitness level via the medium of water. Workouts will be comprised of drills designed to increase stroke efficiency as they improve aerobic capacity, body composition, and muscular endurance. This is a vital opportunity for those students with physical limitations that prohibit typical land based exercise.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1520: Beginning Ice Skating

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and knowledge appropriate for the successful participation in the sport of ice skating.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1525: Intermediate Figure Skating

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 1520 or instructor approval

This course focuses upon motor skill development, techniques, and knowledge for more advanced level figure skating skills as turns, spins, and jumps

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1530: Water Aerobics

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is comprised of aerobic exercises and muscular strength/endurance exercises performed in the water. These exercises will focus on increasing mobility, cardiovascular fitness, muscle tone, and improving body composition. This is a vital opportunity for students with physical limitations prohibiting typical land based exercise.

Notes: No aquatic proficiency required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1540: Indoor Soccer/Futsal

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques, decision-making strategies, and knowledge necessary for successful participation in indoor soccer and Futsal.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1560:Introduction to Invasion Target Game Forms**2 Class Hours 2 Laboratory Hours 2 Credit Hours**

Prerequisite: HPE majors only.

This course provides the foundational framework for motor skill and tactical knowledge acquisition of invasion target game forms. The common strategies, tactics, and skills are applied across a variety of activities.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1570:Walk/Jog for Fitness**1 Class Hours 1 Laboratory Hours 1 Credit Hours**

Motor skill acquisition, fundamental techniques, and knowledge appropriate for the successful participation in walking/jogging cardiovascular fitness activities. Nutritional principles for lifetime health will also be discussed.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1580:Introduction to Striking/Fielding and Net/Wall Game Forms**2 Class Hours 2 Laboratory Hours 2 Credit Hours**

Prerequisite: HPE majors only.

This course provides the foundational framework for motor skill and tactical knowledge acquisition of striking/fielding and net/wall game forms. The common strategies, tactics, and skills are applied across a variety of activities.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1590:Beginning Lacrosse**1 Class Hours 1 Laboratory Hours 1 Credit Hours**

This course introduces the motor skills, fundamental techniques, decision-making strategies, and knowledge necessary for successful participation in the sport of lacrosse.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1610:Beginning Racquetball

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course is designed to introduce racquetball to the student at the beginning level, encompassing basic skills, rules, terminology, strategy, and safety through drills and game play.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1700:Beginning Table Tennis

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course focuses on motor skill acquisition, fundamental techniques and knowledge appropriate for the successful participation in table tennis.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1710:Beginning Wakeboarding

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, techniques, terminology, and safety considerations for successful participation in the sport of Wakeboarding.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1810:Outdoor Recreation and Education

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: HPE majors only.

Fundamental techniques and leadership skills necessary for safe participation in a variety of land and water outdoor recreational and educational activities without disturbance to the environment.

Activities may include backpacking, camping, orienteering, canoeing, basic survival and problem solving adventure activities.

Notes: Additional fee required.

In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1830:Swimming: Water Safety Instructor

1 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: HPE 1330 or permission of the instructor

Fundamental techniques, knowledge and methods appropriate to become certified to teach all levels in the American Red Cross swimming programs.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1850:Advanced Strength and Aerobic Training

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces advanced strength and aerobic training for health-related fitness and enhanced sport performance.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1870:Beginning Fencing

1 Class Hours 1 Laboratory Hours 1 Credit Hours

This course introduces the motor skills, fundamental techniques and knowledge appropriate for the successful participation in the sport of fencing.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this physical education activity course may not be used in Area F in any program of study.

HPE 1900:Adventure Education and Facilitation

2 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: HPE Majors only

This course provides fundamental techniques and knowledge appropriate for the successful participation in adventure education and outdoor recreation activities. Students will learn skills needed to develop and facilitate experiential programs including team-building initiatives, problem-solving activities, and Challenge course elements.

HPE 2000:Contemporary and Historical Perspectives of Health and Physical Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An overview of contemporary and historical perspectives of health and physical education. Emphasis is on providing discussion of career options, major programs of study and professional opportunities in the areas of health and physical education as well as a survey and study of the historical and philosophical principles relative to physical education from a world and U.S. perspective. HPE majors should take this course prior to all 2000-4000 level major courses.

HPE 2050: Fundamentals of Teaching Health and Physical Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces the fundamental knowledge and skills for effective health and physical education instruction. Students will develop initial competencies in lesson planning, pedagogical content development, differentiation strategies, instructional technology, and behavior management in classroom and movement settings.

HPE 2140: Youth Fitness Development and Assessment

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course is designed to provide students with knowledge and skills necessary to assist children and youth in the development of health and skill-related fitness. Students will be introduced to current models of fitness instruction and systematic data collection and evaluation techniques.

HPE 2250: Functional Anatomy and Physiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must have successfully completed any 1000 or 2000 level course in the following prefixes: GEOG, BIOL, CHEM, PHYS, SCI.

This course is an examination of the structure and function of the major body systems, with emphasis on the muscular, skeletal, and cardio-respiratory systems role in human movement and physical activity.

HPE 2290: Special Topics

1-3 Class Hours 1-3 Credit Hours

This lower-division special topics course focuses on selected physical activity topics not regularly offered through the Department of HPE.

HPE 2300: First Aid/CPR Instructor Training

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Theory, practice, and application for safety, injury prevention, and care to include the American Red Cross Pediatric & Adult First Aid/CPR/AED. Teaching methodologies are also needed to prepare professionals to teach Pediatric & Adult First Aid/CPR/AED (Instructor Level Certification) to the layperson. Topics may include but are not limited to: personal, school, home, recreation, traffic, work site, and disaster safety.

HPE 3050: Coaching Principles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Basic understanding of the theoretical and practical applications of the sport science areas of physical education related to coaching. Current issues and topics addressing the principles and problems of the prospective interscholastic coach including coaching philosophy, pedagogy, sport psychology,

sport medicine and sport physiology. Students successfully completing the course may become certified as a Leader Level Coach by the American Coaches Effectiveness Program.

HPE 3055:Advanced Coaching Methods for Basketball

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

In this course students will examine the theories and techniques of coaching basketball. The course content may include, but is not limited to, key coaching topics such as: teaching and evaluating technical and tactical skills, player selection for various positions, practice and season planning, offensive and defensive systems of play, game coaching considerations, and conditioning principles.

HPE 3061:Advanced Coaching Methods for Football

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

This course is designed to enhance the student's usable knowledge of and coaching techniques for American football. Elements of the course will include but are not limited to: technical and tactical skills of position and team play, determining offensive and defensive schemes and personnel use, drill and practice organization, the evaluation of player talent, expectations of today's coach, logistical planning and organization, philosophy development, common terminology, and film evaluation. In addition, topics may also include the role of the coach in the academic world and skills for increasing employment opportunities.

HPE 3065:Advanced Coaching Methods for Soccer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

In this course students will examine theories and techniques of coaching soccer. The course content may include, but is not limited to, key coaching topics such as: teaching and evaluating technical and tactical skills, player selection for various positions; practice and season planning; offensive and defensive systems of play, game coaching considerations, and conditioning principles.

HPE 3075:Advanced Coaching Methods for Softball

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

In this course students will examine the theories and techniques of coaching softball. The course content may include, but is not limited to, various key coaching topics such as: teaching and evaluating technical and tactical skills, player selection for various positions, practice and season planning, offensive and defensive systems of play, game coaching considerations, and conditioning principles.

HPE 3085:Advanced Coaching Methods for Tennis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

In this course students will examine the theories and techniques of coaching tennis. The course content may include, but is not limited to, various key coaching topics such as: teaching and evaluating technical and tactical skills, player selection and development, practice and season planning, singles styles of play, doubles styles of play, game coaching considerations, and conditioning principles.

HPE 3090:Advanced Coaching Methods for Strength and Conditioning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

Students will learn to apply practical and scientific foundations of muscular development, metabolic training concepts and program design for youth and adolescent sports. Course content is intended to guide middle and high school coaches in the implementation of a scientific based approach in the prescription of periodization as it applies to resistance training and anaerobic conditioning specific to adolescence.

HPE 3095:Advanced Coaching Methods for Volleyball

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

In this course students will examine the theories and techniques of coaching both indoor and sand volleyball. The course content may include, but is not limited to, various key coaching topics such as: teaching and evaluating technical and tactical skills, player selection for various positions, practice and season planning, offensive and defensive systems of play, game coaching considerations, and conditioning principles.

HPE 3100:Behavioral and Psychological Aspects of Physical Education and Coaching

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an examination of behavioral and psychological factors affecting performance in physical education, physical activity, and sports. Emphasis on the impact on performance and the teaching/learning process. Topics will include leadership, motivation, group cohesion, social facilitation, arousal/anxiety, cognitive processes, competition, cooperation, and performance enhancement.

HPE 3200:Motor Learning and Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course addresses current theories and principles of motor learning and motor development. Topics include individual differences in motor abilities, information processing, sensory contributions to skilled performance, principles of motor control, and fundamental locomotor skills/movements from a developmental perspective.

HPE 3250:Family Health and Sexuality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course focuses on the historical, sociological, physiological, and educational perspectives of family living and human sexuality.

HPE 3300:Contemporary Health Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course examines the physical, psychological, and social health factors related to personal wellness and contemporary health issues.

HPE 3395:Coaching Practicum

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3050

A senior-level coaching experience designed for candidates in the Coaching minor program of study. Candidates will be assigned as intern (assistant) coaches who will work under the supervision of experienced head or senior coaches at the collegiate, school (only if enrolled in the HPE curriculum), or recreation program levels. This is a field based practicum that will provide candidates with practical experiences in planning and implementing competitive athletic programs.

HPE 3398:Advanced Internship

1-12 Class Hours 1-12 Credit Hours

Prerequisite: Permission of the department chair.

A supervised, credit-earning experience of one academic semester with a previously approved business firm, sport organization, private agency or governmental agency.

HPE 3450:Curriculum, Instruction & Management for Early Childhood Physical Education

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to teacher education program. **Corequisite:** HPE 4410

This course addresses the knowledge, fundamental techniques and motor skill analysis appropriate for the development of children's games, dance and gymnastics. The focus of this course is on curriculum development, methods and materials for planning and implementing a total developmental program for elementary physical education. Includes teaching experiences and appropriate computer software usage.

Notes: Verification of liability insurance is required prior to placement in the field experience.

HPE 3550:Curriculum, Instruction and Management for Middle Grade and Secondary Physical Education

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3450 **Corequisite:** HPE 4430

Curriculum development, methods and materials for planning and implementing a total developmental program for middle and secondary grade physical education. Includes teaching experiences and appropriate computer software usage.

HPE 3600:Child and Adolescent Health Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course examines major public and school-related health issues and programs impacting children and youth.

HPE 3650:Curriculum, Methods and Materials in Health Education

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 3450 **Corequisite:** HPE 4430

Curriculum development and instructional analysis for the planning and implementation of comprehensive health education programs for grades P-12. Includes experiences in school-community health services, teaching experiences, directed field observations and appropriate computer software usage.

Notes: Verification of liability insurance is required prior to placement in the field experience.

HPE 3670:Early Childhood Health and Physical Education for the Classroom Teacher

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Admission to Teacher Education

The study of health education and movement experiences for early childhood school children as part of the Coordinated School Health program. Planning, teaching, and evaluating developmental programs in the elementary classroom. Emphasis will be placed upon integrated experiences.

HPE 3750:Adapted Physical Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the HPE Teacher Education program **Corequisite:** HPE 3450

This course examines the characteristics and abilities of individuals with disabilities and their effect on the physical performance of the individuals. This includes methods for assessing abilities, modifying activities and equipment, and developing suitable physical education programs for schools and activity centers. Particular attention is given to the implications of current legislation affecting individuals with disabilities. Includes a 15-hour practical experience working with an adapted sports program. Students are required to earn a "B" or better to pass this course

HPE 4000:Service Learning in HPE

1-3 Class Hours 1-3 Credit Hours

Prerequisite: 60 semester hours and permission of the instructor and chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth and civil responsibility. Activity will be designed with the instructor and approved by the chair/program directors.

HPE 4250:Measurement and Evaluation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 1401, admission to program, and HPE 3450 or HPE 3550. **Corequisite:** HPE 4430 or HPE 4410.

An overview of the purposes and forms of assessments used in P-12 health and physical education programs. Emphasis includes the study of authentic assessments as opportunities for student learning as well as instructional tools for effective teaching. Topics include assess knowledge and skill acquisition, gathering, reporting and interpreting assessment results, validity and reliability of assessment instruments, and test administration.

HPE 4252:Measurement and Evaluation in HPE

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Any General Education D1 course **Corequisite:** HPE 4650

This course provides an overview of the purposes and forms of assessments used in P-12 health and physical education programs. Emphasis includes the study of authentic assessments as opportunities for student learning as well as instructional tools for effective teaching. Topics include assessments of knowledge and skill acquisition, gathering, reporting and interpreting assessment results, validity and reliability of assessment instruments, and test administration.

HPE 4340:Applied Kinesiology

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: HPE 2250

This course examines the principles of biomechanics and exercise physiology as they relate to the motor performance and physical fitness levels of children and youth. The course will focus on the application of concepts to development of P-12 Health and Physical Education programs.

HPE 4410:Practicum in Children's Health and Physical Education

1 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to Teacher Education **Corequisite:** HPE 3450

Field based practicum in the early grade public schools designed to provide students with practical experiences in planning and implementing health and physical education instruction in grades P-5. Verification of liability insurance is required prior to placement in the field experience.

HPE 4430:Practicum in Middle and Secondary School Health and Physical Education

1 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: HPE 4410 **Corequisite:** HPE 3550 and HPE 3650

A field based practicum in both the middle and secondary public schools designed to provide students with practical experiences in planning and implementing school health and physical education instruction in grades 6-12. Verification of liability insurance is required prior to placement in the field experience.

HPE 4490:Special Topics in HPE

1-3 Class Hours 1-3 Credit Hours

This upper-division course focuses on selected research topics of interest to the faculty not regularly offered by the Department of HPE.

HPE 4650:Yearlong Clinical Experience I in Health and Physical Education (P-12)

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to Teacher Education, Issued Pre-service Certificate, Admission to Yearlong Clinical Experience **Corequisite:** HPE 4252, EDUC 4610

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in Health and Physical Education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Proof of liability insurance is required.

HPE 4660:Yearlong Clinical Experience II

0 Class Hours 36 Laboratory Hours 9 Credit Hours

Prerequisite: HPE 4650, Educator Ethics Assessment 360 Eligibility, GACE Eligibility

This course is the second semester of an intensive and extensive co-teaching yearlong clinical practice in Health and Physical Education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment.

HPE 4850:Student Teaching in Health and Physical Education (P-12)

1 Class Hours 33 Laboratory Hours 12 Credit Hours

Prerequisite: Admission to HPE student teaching.

Full-time teaching experience under the supervision of a public school supervising teacher and a college supervisor. S/U grading only. Verification of liability insurance is required prior to placement in the field experience.

IPE 4413:Interprofessional Care and Collaboration

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: ES 2100 or HS 2100 or IHS 2100 or PHE 2100 or Nursing major; at least 90 earned credit hours; or by permission of the instructor.

This course is designed to provide students with an opportunity to develop the knowledge, values and skills needed for working effectively within interprofessional teams in health care and non-health care settings. Students will learn about their own styles of working in teams and how to address conflict to ensure best outcomes for the final beneficiaries. Emphasis will be placed on the transfer of skills to different contexts and issues in the various disciplines and professions.

PHE 2000:Writing and Analysis for Public Health Education

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course is designed to advance students' critical thinking, reading, and writing skills for the discipline. In this course, students will learn analytical techniques and communication strategies that will help make them successful in the Public Health Education program and the workforce. The course will build writing skills for health literacy, with emphases on research methods, identifying reliable sources of health information, clear and accurate presentation of findings, APA formatting, and delivering audience appropriate health messages. Students will hone their analytical skills through engagement with various health topics and sharpen their writing skills through multiple drafts of papers, with substantial feedback from their peers and their instructor. The culmination of the course will be a portfolio that demonstrates the individual student's growth in comprehension and production of core Public Health literature.

PHE 2100:Introduction to Public Health Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course provides an introduction to the Public Health Education discipline with a focus on historical, current, and future significance of public health education, key principles and terminology, philosophical and research foundations, writing and presentation skills, prominent public health officials and agencies, overview of various public health professions and institutions, ethical issues within the profession, professional roles and responsibilities, the public health education marketplace and core Public Health disciplines.

PHE 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This lower-division course focuses on current and pertinent topics and content specific to the public health education discipline not regularly offered through the HPE Department.

PHE 2400:Behavior Theory and Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2000 and PHE 2100

This course will provide a theoretical foundation for public health education practice. Topics include behavior theories, determinants and influences of health behaviors, and the use of behavior theories in guiding public health education practice.

PHE 2900:Peer Health Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This course introduces students to health promotion programming specific to planning, implementation, and evaluation of peer-to-peer health education. Emphasis is placed on educating students on current health topics and teaching strategies for effective peer health education. Students will be eligible to receive a national peer health education certification through The BACCHUS Network.

PHE 3150:Applied Analytic Techniques in Public Health Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 or IHS 2100

This course introduces students to the applied analytic techniques used in public health education and research. Topics include basic concepts of quantitative data analysis, methods of examining and describing central tendency and variability of public health data, techniques of analyzing numerical and categorical data, approaches to comparing differences and changes of public health status and outcome over time among population groups, and interpreting and communicating the results of data analysis. Emphasis is placed on applying relevant quantitative analytical techniques to solving practical problems encountered in public health education and practice.

PHE 3330:Health Systems & Health Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 or IHS 2100 or NURS 3209

This course provides an overview of the basic structures and operations of the U.S. health system, including its major characteristics, foundations, components, finance, and future; health policy development process; and the impact of health policy on health systems and population health.

Notes: This course is crosslisted with NURS 3330

PHE 3400:Disease Prevention and Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HPE 2250 or BIOL 2221

This course provides an overview of human diseases, including causes/risk factors, signs and symptoms, diagnosis, treatment, and prevention. Emphasis will be placed on the role of public health

education specialists in prevention and management of diseases that are the leading causes of premature disability and death domestically and globally.

PHE 3850: Fundamentals of Program Planning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2400

This course introduces the fundamentals of public health program development in community, work site, and clinical settings. Emphasis will be placed on the knowledge and skills necessary to plan a public health education program.

PHE 4000: Public Health Education Study Abroad

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (WELL 1000 or WELL 2000) and 2.5 Institutional GPA.

This course is to afford students a unique opportunity to explore the function and structure of public health in developing communities. Students will assist in the development and implementation of health promotion and prevention activities in developing communities. Participants will be engaged in public health activities such as community mapping, program planning, direct service, assessment, and reflection. Understanding cultural values and beliefs related to health and working as part of interdisciplinary teams will also be part of the student's experiences.

PHE 4200: Introduction to Community and Worksite Health

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2400

This course examines various community and worksite health issues. Topics include community organization, health issues of diverse populations and demographics, global and national health issues, minority health, health care and the U.S. health care system, and occupational and community safety and health.

PHE 4300: Environmental Health Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 or IHS 2100

This course will examine issues associated with environmental factors and conditions and their impact on the health of individuals and communities. Topics will include environmental epidemiology, toxicology, policy, and regulation as well as environmental agents of disease and the implementation of environmental interventions to improve public health and safety.

PHE 4350: Methods of Public Health Education Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 3150 and PHE 3850

This course offers a comprehensive introduction to the research process including the development and exploration of a single research question using empirical data, elements of the research process

within quantitative, qualitative, and mixed methods approaches, and the submission and review process of a research manuscript.

PHE 4400:Directed Study in Public Health Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 and permission of the instructor

Field, research, and/or academic experience under the supervision of a KSU course instructor will provide students the opportunity to work with internal and external academic partners outside of the traditional classroom setting.

PHE 4490:Special Topics in Public Health Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WELL 1000 or WELL 2000

This upper-division course focuses on current and pertinent topics and content specific to the public health education discipline not regularly offered through the HPE Department.

PHE 4500:Epidemiology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 or IHS 2100

This course introduces the principles, concepts, and methods of epidemiology to examine a full range of disease occurrence, including genetic, environmental and social causes of both infectious and non-infectious diseases. Epidemiological techniques to promote health and wellness and to prevent and control disease will be emphasized.

PHE 4600:Program Implementation and Evaluation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 3850

This course builds upon the Fundamentals of Program Planning course and guides students in the implementation and evaluation of a health promotion program in a community-based setting. This course is designed to provide the student advanced knowledge and skills in the implementation and evaluation of health promotion programs. The focus of this course is to provide students with practical field-based experience in a variety of program implementation and evaluation activities for diverse priority populations.

PHE 4650:Health Coaching and Patient Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 3850 ***Concurrent:***

PHE 3400

This course integrates health coaching and patient education concepts and principles applicable to the current healthcare system. Topics include behavior change theories, motivational interviewing

techniques, individual and group coaching strategies, population based health, survey of medical issues and health information, and patient empowerment.

PHE 4700:Advanced Internship

1-6 Class Hours 0 Laboratory Hours 1-6 Credit Hours

Prerequisite: Completion of PHE Minor Core with a C or higher, Adjusted GPA of 2.5, approval of the internship coordinator and/or program coordinator

The Public Health Education Minor Advanced Internship is designed to be the culminating capstone academic experience for students completing the core course requirements in the Public Health Education Minor Program. It is designed as a senior-level credit-earning experience of 1-6 credit hours at an approved public health education internship site. Students work under the direct supervision of public health professionals and a university supervisor.

PHE 4710:Introduction to Public Health Education Internship

0 Class Hours 1 Laboratory Hours 0 Credit Hours

Prerequisite: Admission to the Public Health Education major, 90 Credit Hours, and Senior-Level Status. **Concurrent:**

PHE 4600 or PHE 4650

This course is required in the semester prior to the PHE 4750 Seminar and Internship in Public Health Education course and will lead students through the requisite steps for applying and securing the capstone PHE 4750 internship placement.

PHE 4750:Public Health Education Seminar and Internship

12 Class Hours 0 Laboratory Hours 12 Credit Hours

Prerequisite: Completion of all PHE program courses and PHE 4710 and Institutional GPA of 2.5
This course is the capstone experience for students completing the program requirements for the Bachelor of Science in Public Health Education. Course topics include public health education trends, certifications, professional ethics, liability, marketplace needs, and employment strategies. Students will work under the direct supervision of public health education professionals and a university supervisor. The course will also include regularly scheduled professional development seminars on campus.

WELL 1000:Foundations for Healthy Living

2 Class Hours 1 Laboratory Hours 3 Credit Hours

This course is designed to examine priority health issues impacting KSU students through a focus on health promotion and disease prevention. Emphasis is placed on achieving and maintaining healthy lifestyles by developing effective strategies to adapt to changing personal and environmental factors. Topics of exploration include physical activity, nutrition, weight management, stress, emotional health, and behaviors that contribute to the leading causes of death and disabilities in the United States.

Notes: In accordance with USG Academic and Student Affairs Handbook 2.4.5, this basic health course may not be used in Area F in any program of study.

WELL 2000:Foundations of Health and Wellness

2 Class Hours 1 Laboratory Hours 3 Credit Hours

This course is designed to examine the scientific and theoretical foundations of health and wellness. Students focus on developing health knowledge and skills necessary to adapt to changing personal, social, and environmental factors related to lifespan development. Topics of exploration include health literacy, goal setting, physical activity, nutrition, stress management, emotional health, substance use, sexual health, self-care, and other health determinants.

History

HIST 1100:Introduction to World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An overview of world history that provides an introduction to the origin and development of the world's societies and their political, cultural, and economic traditions.

Notes: The course uses a global approach to world history

HIST 1111:Pre-Modern World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is a survey of world history to early modern times. The course examines the political, economic, social, and cultural history of the world with a focus on connections and interactions.

HIST 1112:Modern World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is a survey of world history from early modern times to the present. The course examines themes, events, trends, institutions, and ideas with a focus on global connections and interactions.

HIST 2111:United States History to 1877

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores major themes in the social, cultural, political, and economic history of the peoples of North America to 1877. Topics include the intersections of cultures in colonial America, the origin and development of the American republic, the evolution of democratic ideas and institutions, western expansion, slavery, sectional conflict, and emancipation and its aftermath.

HIST 2112:United States History Since 1877

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the major themes in the social, cultural, political, and economic history of the United States since 1877, the multicultural nature of contemporary U.S. civilization, and the nation's role in the global arena.

HIST 2206:Origins of Great Traditions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 1100, HIST 1111, or HIST 1112

This course is a systematic examination of five centers of civilization in Afro-Eurasia during their defining moments. The course focuses on the historical contexts that gave rise to China's classical philosophies, India's transcendental world-view, the Judaeo-Christian-Islamic synthesis, African mythoreligious systems of thought, and Latin-European culture in the West. The course's content emphasizes cross-cultural influences and connections.

HIST 3100:Historical Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course introduces students to historical inquiry as a conversation about the past. It surveys methods, concepts, and frameworks relevant to the discipline. Students engage in the close reading of scholarly historical work, learn and practice a variety of research methods, and analyze historical sources. Students cultivate good scholarly practices and habits of mind that will benefit them in future courses. Students should take this course during the second semester of the sophomore year.

HIST 3271:Introduction to History Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of Program Coordinator, HIST 1111, HIST 1112, HIST 2111, HIST 2112, and EDUC 2110

This reading and writing-intensive course introduces fundamental approaches, methods, and concepts relevant to the discipline of history, historical thinking, and teaching American history. Teacher candidates engage in reading and analyzing scholarly works, learn and practice basic research methods, examine contemporary debates and developments in history and history education, contextualize and plan lessons that engage secondary students in studying history. This course also includes a field component.

HIST 3304:History of Georgia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A consideration of Georgia's political, economic, social, and cultural development from the colonial period to the present. Topics include the cultures of indigenous peoples, the Spanish in Georgia, the founding of a British colony, the Revolution, Indian removal, antebellum society, the Civil War, Reconstruction, the New South era, the rise and decline of the cotton economy, race relations, and post-World War II prosperity and problems.

HIST 3305:The World Since 1945

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of major themes in world history since 1945, this course focuses on sociocultural and intellectual developments in addition to the traditional concerns with political and economic relations. Particular emphasis is given to great power relations, the role of the middle powers, and North-South relations as well as the interactions between Western and non-Western cultures in the context of increasing globalization.

HIST 3310:The Old South

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course will be an exploration of the American South from the colonial period to the end of the Civil War. While major political and economic events will be an important part of the course, such events grow out of the ordeals of ordinary people. Therefore, close attention will be paid to the experiences of men and women -- white, black, and Native American -- from all social classes whose lives created a unique society known as the Old South.

HIST 3311:The New South

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

The South's social, political, and economic development from 1865. Emphasizes Reconstruction, the "New South Creed," race relations, industrialization, and the region's changing role in national affairs.

HIST 3325:Introduction to Public History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

The course exposes students to how Americans think about the past, as well as its commemoration and public presentation. Special focus will be placed on the ways in which historians transfer their writing, research, and analytical skills to professions outside of academia. Major subfields and professions within public history are examined as are the current issues and controversies within the field.

HIST 3326:Historic Preservation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Examines the history, theories, and methods of historic preservation. Students are exposed to such activities as renovation approaches for historic architecture, neighborhood and downtown revitalization, and heritage tourism, as well as the social and ethical issues swirling around preservation. Students are also introduced to the "tools" of preservation, including tax incentives, historic inventories, HABS/HAER, the National Register of Historic Places, and the National Trust's Teaching with Historic Places.

HIST 3327:Architectural History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

The course introduces students to vernacular and high-style architecture and its relationship to social, political, and economic forces. The focus will be on the forms, spaces, and stylistic traits of historic architecture, how architecture has evolved through the years, how technological evolutions and innovations have influenced architecture, and what the built environment reveals about public and private life. The geographic focus of the course can change, depending upon the instructor and the needs of the department.

HIST 3328:Introduction to Archives and Records Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course introduces the student to the archival and records management professions, principles, practices, and legal/ethical challenges. In addition, students hands-on experience working with sample collections and original materials.

HIST 3331:History of Religion in the U.S.

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of religious history in the United States, with special emphasis on beliefs and institutions and their social and cultural context.

HIST 3333:African American History to 1865

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A history of the people of African descent in the United States, from the African beginnings to 1865. The course will emphasize the forced migration of Africans, their experiences under plantation slavery, their resistance and emancipation, and their contributions to American society.

HIST 3334:The Africans in the Diaspora

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of the activities and experiences of African people who live outside the continent from the earliest times to the present. This course examines the migration of Africans to Eurasia, Oceania, and the Americas, and gives special attention to the slave trade across the Sahara Desert and the Atlantic and Indian Oceans; the comparative experience of Africans in slavery in the Middle East and the Americas; emancipation and the process of racial and national integration; and the economic, political, and cultural contributions of Africans in the Diaspora.

HIST 3335:African American History, 1865 to Present

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A history of African Americans in the United States since emancipation. The course emphasizes the struggles waged by African Americans to achieve racial equality and full citizenship in the United States, and the social, cultural, political, and economic forces that have shaped the African American community. Special attention is given to the men and women who led the struggle, the ideas and ideals which inspired and dominated each phase of the struggle, and the movements and institutions which were created in the process.

HIST 3340:U.S. Military Experience

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of the development of the American military and its role in U.S. and world history. The course will emphasize the political, economic, and social importance of the military and its role in integrating U.S. society as well as the evolution of strategy, operations and tactics and their use in warfare.

HIST 3341:Women in U.S. History and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Focuses on the social, economic, political, cultural, and religious experiences of American women of various racial, ethnic, and religious backgrounds from the Colonial period to the present.

HIST 3350:England to 1688

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of English history from the earliest time to 1688. The course emphasizes political, cultural, and social developments between the Norman conquest and the transformation of England into a constitutional monarchy by the Glorious Revolution.

HIST 3351:Modern England

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

English history from 1689. The course emphasizes the rise of parliamentary government, the importance of the British Empire, and the social, cultural, and economic ideas that have made England and much of the English-speaking world what they are today.

HIST 3357:Africans in Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A survey of the history of people of African descent in Asia from the African beginnings to the present. The course evaluates the historical significance of the African presence in the Middle East, India, Southeast Asia, and China. It emphasizes the historical contacts and connection between Africa and Asia, the forced migration of Africans in the age of Islamic expansion and imperialism, the comparative experiences of Africans in bondage and freedom, and their integration into the host societies.

HIST 3358:Africans in Latin America and the Caribbean

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A history of the people of African descent in Latin America, the Caribbean, and the United States, from the African beginnings to 1888. The course will examine the forced migration of Africans; their roles in the conquest and settlement of Spanish America, Brazil, and the West Indies; and their comparative experiences under plantation slavery. It will emphasize their resistance and emancipation, and their contributions to the development of the multiracial character of Latin American and Caribbean societies.

HIST 3361:Themes in Slavic and Eastern European Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course is an introduction to the history, politics, arts, and culture of Slavic and Eastern Europe with a concentration on the last two centuries and contemporary events. After a brief historical survey, students examine prominent themes such as nationalism, ethnicity, state-building, and imperialism. Many themes are analyzed using examples from the arts, popular culture, music, and literature.

HIST 3366:History of Mexico and Central America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Examines the Mesoamerican pre-classic civilizations, the Aztec Empire and the Maya kingdoms, the Spanish conquest and establishment of New Spain, and the independent nation-states of Mexico and Central America. Themes include Spanish colonialism, the Indian struggle for justice, modern nation-state building, and relations with the United States.

HIST 3367:History of Brazil

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A study of Brazil, to include the Native American period, Portuguese colonialism, the Empire of Brazil, and Brazil in the 20th century. Major themes are sugar and slavery, boom and bust economic cycles,

the formation of the Brazilian social identity, Brazil and the Amazon, and Brazil's place in the contemporary global world.

HIST 3371:Modern Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course surveys European history from 1789 to the present. The course focuses on forces that have shaped modern Europe such as liberal ideologies, industrialization, and the development of mass society. It examines the causes and consequences of the French Revolution, the era of national unification, imperialism, the two World Wars, the impact of the post-WWII era, the collapse of Eurocommunism, the evolution and impact of NATO and the European Union, and current challenges.

HIST 3372:Ancient to Pre-Modern China

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course introduces the main themes in Chinese history from the Neolithic to 1600; discusses how traditional cultures and outside influences have interacted to produce traditional China; explores the great diversity and impressive continuities of traditional Chinese civilization; and assesses the significance of the institutions of state, family, and women in Chinese history.

HIST 3373:Modern India and South Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course emphasizes how Hindu, Buddhist, Islamic, and other traditional cultures combined with British colonial rule and other modernizing influences to produce the India of today. Some attention is also given to peripheral areas, particularly Pakistan and Bangladesh.

HIST 3374:Modern China

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course provides a basic survey of the major political, economic, social, cultural and intellectual developments of China since 1600. The course emphasizes how traditional cultures, outside influences, and modernizing forces have interacted to produce the China of today.

HIST 3375:Silk Road

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

The Silk Road was the world's first great superhighway, linking China and Japan to the Mediterranean World across Central Asia from ancient times. The peoples along the way traded luxury goods as well as ideas, religions, art, culinary and musical traditions. Through lectures, reading, and films, we

explore the cultural interactions between East and West. Primary sources help us understand the great ideas in Buddhism, Islam, the Indian royal epics, Christian crusading and Mongol expansion.

HIST 3376:Historiographical Debates

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

Investigates the major limits and problems inherent in historical understanding and introduces the student to philosophies of history that have sought to address those problems. Case studies of major historical controversies help students recognize the important ways those limits and problems influence even the greatest scholar's efforts at historical analysis.

HIST 3377:History of Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

History of scientific ideas and methods from ancient times to the present, with special emphasis on intellectual trends that contributed to the modern world's scientific outlook.

HIST 3378:History of Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course examines technology as a factor in historical change, emphasizing the role of tools, machines, and systems in revolutions, culture, politics, and economics. Students engage historiographical debates and readings on the role of technology in the recent and distant past. More broadly, students develop a critical understanding of the role of humanistic inquiry in technological knowledge through biographies, case studies, and primary source documents.

HIST 3379:Central Asia in World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course provides an advanced introduction to the history of Central Asia from a global perspective. It covers a large territory including Kazakhstan, Turkmenistan, Uzbekistan, Kirgizstan, and Tajikistan. This course focuses on the changes and continuities in the cultures and societies that flourished in this region during the times of major transformations with global significance, such as the expansion of the Mongolian Empire, spread of Islam, encounters with modernity, and emergence of the nation states.

HIST 3380:Premodern Japan

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course provides a basic survey of the major political, economic, social, cultural and intellectual developments of the Japanese archipelago from the earliest times to 1600. The course emphasizes

Japan's interactions with outside world and how the indigenous and foreign elements were combined to create the basis of Japanese society.

HIST 3381:Modern Japan

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course provides a basic survey of the major political, economic, social, cultural and intellectual developments of the Japanese archipelago from 1500 to the present. The course emphasizes Japan's interactions with the outside world and how indigenous and foreign elements were combined to create the basis of modern Japanese society.

HIST 3382:North Africa and Middle East in Modern Times

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

This course analyzes the history of North Africa and the Middle East since the emergence of Islam. Its major themes include the rise of Berber-Arab/Islamic civilization, the historical ties between North Africa and the Middle East, and the impact of Ottoman rule. Consideration of the 20th century includes European imperialism, the advent of military rule, the establishment of Israel, Arab-Israeli wars and the search for peace, pan-Arabism and the independence movement in Maghrib, petroleum and international politics, the rise of Muslim fundamentalism, and the problems of economic development and modernization are all important themes in the course.

HIST 3391:History of West Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A history of West Africa from the earliest times to the present. The course emphasizes cultural continuities and changes, trade and cultural ties with North Africa, and contemporary challenges of economic development and nation building in the region. It examines important themes like village, urban, and community life; the formation of mini and mega states such as Ghana, Mali, and Songhai empires; the creation of trans-Saharan and trans-Atlantic trade networks; traditional religion, Islam, and Christianity; European colonialism and African resistances; and decolonization.

HIST 3392:History of Southern, Eastern and Central Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 30 credit hours.

A history of Southern, Eastern, and Central Africa from the earliest times to the present. The course emphasizes continuities and changes in African culture, African participation in Indian Ocean and Middle Eastern trade networks, and the impact of European colonization. It examines important themes like Bantu migration and state formation in Central Africa; the emergence of the Ethiopian kingdom; the impact of the Zulu Mfecane; Swahili culture and Omani rule in East Africa; Dutch settlement and the development of apartheid; and the achievement of Black majority rule in South Africa.

HIST 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the co-op coordinator.

A supervised work experience program for a minimum of two academic semesters at a site in business, industry, or government. For sophomore, junior, or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

HIST 3398:Internship

1-9 Credit Hours

Prerequisite: 60 Credit Hours and Approval of the internship coordinator.

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, or private or government agency.

Notes: Credit is allowed in elective areas.

HIST 4163:The United States between the World Wars

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course provides an overview of the economic, political, legal, social, and cultural developments that occurred in the United States during the period between World War I and World War II

HIST 4204:The History of the American West

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course surveys the history of the American West with special emphasis on the development of the Trans-Mississippi West from the early 19th century to recent years. The crucial influences of the environment, the interaction of Native Americans, Hispanics, Euro-Americans and other cultural groups, and the unique relationship of the region with the Federal government are explored.

HIST 4245:Business & Economic History of United States

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course surveys American business and economic development from colonial times to the present. Its major themes include the history of small business and family business; the shifting position of the U.S. within the world economy; the regional economy of Georgia and the South; labor-management relations; the labor movement; and the changing social, political, and cultural context within which business and economic institutions have developed.

HIST 4251:U.S. Social and Cultural History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course explores the cultural history of the United States since inception. It considers the themes of nationality, immigration, ethnicity (Asian-Americans, Hispanic-Americans, and Middle Eastern-Americans), the elderly, popular culture, and the environment.

HIST 4255:Diplomatic History of the United States

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course examines major trends in U.S. diplomacy from 1890 to the present, emphasizing U.S. rise to world power, World Wars I and II, the Cold War and its end, and U.S. relations with developing world areas.

HIST 4373:Modern India and South Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have completed 45 credit hours.

This course covers major themes and events in the history of the Indian subcontinent from 1526, the beginning of the Mughal era, to 1947, the independence of India and creation of Pakistan. It explores the making of India as the process was continuously enmeshed with colonial modernity and the birth of nationalist movements. The course provides students with a solid introductory understanding of modern South Asian history and the exploration of historical methods.

HIST 4374:History of Ancient and Medieval India

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have completed 45 credit hours.

This course introduces students to the history of India starting with the Indus River civilizations (c. 2500 before common era) to the advent of Islam and the eventual rise of the Mughal Empire. Students explore multiple religious traditions, ethno-linguistic communities, constant migrations of people, and how broader global forces beyond India shaped the subcontinent during this period.

HIST 4375:Themes in Asian History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have completed 45 credit hours.

This course examines various themes in the social, political, and cultural history of South Asia and the Indian Ocean World. Possible themes might include major historical figures in South Asian history, labor and subaltern studies, or Indian Ocean World.

HIST 4391:Emerging Themes in African History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course is a survey of major themes in African cultural history from the earliest times to the beginning of European colonialism. The course introduces students to the peoples, societies, and cultures of the continent and emphasizes dominant themes such as cultural unity and diversity, empire and civilization, kinship and family, ethnic and nation building, Islam and traditional religions, indigenous institutions, slavery, and sociopolitical transformations before European colonialism.

Course may be cross-leveled with HIST 6391.

HIST 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the Department Chair

Covers special topics and seminars external to regular course offerings.

HIST 4410:Colonial America to 1763

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Starting in the pre-Columbian period, this course covers the American experience until 1763. It looks at Native American life, colonization and settlement by the Spanish, French and English, interaction with the Atlantic world, and the wars for imperial dominance fought in North America until 1763. Issues explored include class structure and family life, religion, politics, intellectual movements, society and culture, slavery, and treatment of minorities.

HIST 4411:The American Revolution

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Examines the American Revolution from the start of the colonists' disputes with Britain through the ratification of the Constitution. Issues covered include the development of tensions between Britain and the colonies during the Seven Years' War and decade-long dispute over taxation, the decision to declare independence and the Revolutionary War, the postwar Confederation government, and the creation of the Constitution. The roles of women, Native Americans, African Americans, and loyalists are also examined.

HIST 4412:The Early Republic

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course will explore the history of the United States from 1787-1824. Topics and issues covered will include the creation of the Constitution, the formation of the first party system, the growth and development of the federal government, the young republic's foreign policy, the War of 1812, the

Market Revolution, the Era of Good Feelings, and the development of a uniquely American culture. Social, economic, political, and military aspects of the American experience will be addressed.

HIST 4415:Jacksonian America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course will explore the history of the United States from 1815-1848. Topics and issues covered will include the War of 1812, the Market Revolution, the Era of Good Feelings, the rise of Andrew Jackson, Indian Removal, the formation of the second party system, the rise of the reformist impulse, sectional disruptions caused by territorial expansion and slavery, the annexation of Texas, the Mexican War, and the continued development of a uniquely American culture. Social, economic, political, and military aspects of the American experience will be studied.

HIST 4424:Museum Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course exposes students to both the theory and practice of education in museums, historic sites, and other public history and cultural institutions. An emphasis is placed on the way that museum educators combine theory with practice when implementing educational programming. Major trends in the field of museum education are explored including K-12 education, museum-community partnerships, online learning, and audience engagement.

HIST 4425:Oral History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Focuses on the methods of taking, processing, and utilizing oral histories. Additional emphasis is placed on the study of planning, development, and operation of oral history projects for libraries, museums, corporations, and public history agencies.

HIST 4426:Documentation and Interpretation of Historic Sites

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Explores the methods of documenting historic properties, especially as related to the National Register of Historic Places. Special emphasis is placed on completing a nomination for the National Register of Historic Places. Includes interpretation of historic sites for public exhibit.

HIST 4427:Museum Exhibitions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course examines the process by which museums create exhibitions, from planning and research through object identification and selection, community involvement, script and text preparation,

design, fabrication, installation and maintenance. The course brings students into contact with theory, and provides application of theory through their conceptualization and installation of an interpretive history exhibition. Repeatable once for a total of six credits with approval of instructor.

HIST 4428:The Third Reich

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course draws a wide range of texts to place the Third Reich (1933-1945) in a broad historical context to understand its rise, causes, consequences, and legacies.

HIST 4430:Museum Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Provides a broad introduction to the museum world and the functions of museums in American society. Emphasis will be placed on historical museums. Subjects covered will include museum management, collections management, education, interpretation, exhibit design, ethics, and scholarly criticism of museums.

HIST 4435:History and Memory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This seminar experience examines the literature of public history and memory. Through readings and discussion the class will examine what we know about the past and how we know it, the changing interpretation of historical events over time, the shape and influence of historical memory, the politics of historical interpretation, and the public presentation of history.

HIST 4440:Medieval Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course is a survey of the origins of European culture, this course focuses on the period between the fourth and the fourteenth centuries, during which time Europe achieved its own form of cultural unity distinct from that of its Mediterranean neighbors.

HIST 4441:The Holy Roman Empire

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned 45 credit hours.

This course provides a survey that examines the social, political and cultural history of the Holy Roman Empire from its medieval origins to its dissolution in 1806. This course emphasizes the impact that the Holy Roman Empire had on the development of European politics, ethnicity, and religion from the medieval era to the early modern period, with a particular emphasis on Central Europe.

HIST 4442:History of Religious Tolerance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course traces the origins of the concept of tolerance of the religious "other," with a focus of content on medieval and Early Modern Europe. Besides the historical exploration of the topic and an examination of the emergence and development of the idea of religious toleration against a background of persecution and wars of religion, students also examine and discuss philosophical and practical aspects of religious tolerance today.

HIST 4445:Age of Enlightenment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

A contextualized discussion of major developments in European thought during the eighteenth century. Topics include rationalism and the notion of the social applicability of science, the idea of progress, the critique of established religion, economic theories such as those of the Physiocrats, and epistemological interests as expressed in the Encyclopedie of Diderot and d'Alembert, as well as the increased cosmopolitanism and the importance of extra-European models (especially the Chinese Confucian model).

HIST 4451:Civil War and Reconstruction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Causes and development of the U.S. Civil War from 1830. Includes an analysis of the political, social, and economic aspects of the Reconstruction Era.

HIST 4453:World War I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course provides an overview of the major issues and events surrounding the First World War, exposing students to its opposing governments, leaders, military forces, and major battles, aspects that shaped the conduct and outcome of this momentous international confrontation. It affords students an understanding of the political, military, and social histories of the war and the long-range political and social implications and consequences of the treaty that came at its conclusion.

HIST 4454:Twentieth Century Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

A survey of European history from 1914 to the present. The course focuses on the main forces that have shaped Europe such as the Second Industrial Revolution and the development of mass society. It examines women's issues; the rise of Fascism; the impact of existentialism on philosophy, literature, and art; the collapse of Euro-communism; and progress toward European Union.

HIST 4456:World War II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

A survey of the causes, events, and results of World War II. The course emphasizes military history and the global nature of the conflict but also examines the economic, political, and diplomatic aspects of the war.

HIST 4461:Gilded Age & Progressive Era

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

An examination of the expansion, industrialization, and urbanization of the United States in the late 19th and early 20th centuries and of the era's cultural, political, economic, intellectual, and social issues.

HIST 4471:Recent United States History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

Recent United States History, 1939-present. Considers domestic political history, an overview of foreign policy, economic growth and change, and social and cultural reform movements.

Course may be cross-leveled with HIST 6471.

HIST 4488:Approaches to World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3271, and Permission of Program Coordinator

The course examines approaches to world history as a field of study, including important debates and controversies in the tradition, along with best practices in teaching world history. The course includes a consideration of recent developments on topics such as modernization and globalization and their significance in world history, philosophical perspectives on the importance of world history in today's secondary classrooms, world history lesson planning and teaching, and a middle school field component.

HIST 4490:Special Topics in History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

The course treats topics of interest to both students and faculty.

HIST 4495:Research Seminar in US History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3100; Departmental Approval.

This seminar introduces students to the historiography of a particular topic or theme in US History. It

requires students to develop an original research paper on the topic or theme using primary and secondary sources and reflecting standard practices within the discipline.

Notes: This course should not be taken before the second semester of the junior year and may be repeated once for credit.

HIST 4496:Research Seminar in European History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3100; Departmental Approval.

This seminar introduces students to the historiography of a particular topic or theme in European History. It requires students to develop an original research paper on the topic or theme using primary and secondary sources and reflecting standard practices within the discipline.

Notes: This course should not be taken before the second semester of the junior year and may be repeated once for credit.

HIST 4497:Research Seminar in non-Western History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3100; Departmental Approval.

This seminar introduces students to the historiography of a particular topic or theme of a particular region in the non-Western world. It requires students to develop an original research paper on the topic or theme using primary and secondary sources and reflecting standard practices within the discipline.

Notes: This course should not be taken before the second semester of the junior year and may be repeated once for credit.

HIST 4498:Research Seminar in World History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3100; Departmental Approval.

This seminar introduces students to the historiography of a particular topic or theme in World History, using the approaches of cross-cultural, transnational, or transregional history. It requires students to develop an original research paper on the topic or theme using primary and secondary sources and reflecting standard practices within the discipline.

Notes: This course should not be taken before the second semester of the junior year and may be repeated once for credit.

HIST 4499:Senior Thesis in History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HIST 3100 and (HIST 4495 or HIST 4496 or HIST 4497 or HIST 4498) and approval of the department chair.

A combined tutorial and seminar in which students research and write a senior thesis in addition to making a computer based presentation in class.

HIST 4501: Ancient Greece

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned 45 credit hours.

This is an upper-level history course on the history of the Greek world in the Bronze, Archaic, Classical, and Hellenistic ages (c. 3000 - 200 BC). In addition to core political and military developments, lectures cover Greek literature and extended forays into a range of important social and cultural topics including art, religion, and the family.

HIST 4502: Ancient Rome

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned 45 credit hours.

This is an upper-level history of the Roman people and their empire from the foundation of the city of Rome to the end of the so-called Pax Romana (753 BC -180 AD). In addition to core political and military developments, this course covers literature, religion, imperial ideology, Romanization, and Roman daily life.

HIST 4503: Twilight of Antiquity

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned 45 credit hours.

This is an upper-level history course on the final phase of the ancient Roman empire and the transition from antiquity to the early Middle Ages (c. 200 - 600 AD). Major topics include the fall of the western half of the empire, the survival of the East, the rise of new barbarian kingdoms, and the Christianization of the Roman world.

HIST 4544: Renaissance Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of at least 45 credit hours

This course is an overview of European history ca. 1400 to ca. 1530, focusing on the Renaissance, a revival, originating in Italy, of ancient models for education, art, literature and politics. Among the topics the course covers are humanism, the transformation of art and architecture, Renaissance political models, the military and print revolutions, and the European voyages of reconnaissance and conquest. This course emphasizes the close reading of period texts and frequent critical writing.

HIST 4545: Reformation Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of at least 45 credit hours

This course provides an overview of European history in the long sixteenth century, focusing on the religious upheavals known as the Reformations. It traces the emergence of the Protestant

confessions, as well as Catholic reform and reaction. Examining both the actions of key figures and the broader social forces, the course assesses the immediate and enduring repercussions of the splintering of western Christendom.

HIST 4555:Topics in European Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have completed 45 credit hours.

This course introduces themes in early modern and modern European cultural history. It explores the premise that literary and artistic developments could drive-not just reflect-political, social, economic, and intellectual changes. Topics may include, but are not limited to, the use of popular song as political propaganda, changing gender norms in eighteenth-century literature, identity formation through music, culture as an industry, film and globalization, and the relationship between visual art and warfare.

HIST 4558:The Holocaust

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course puts the Holocaust into historical perspective and reflects on what it reveals about genocide in the twentieth and twenty-first centuries. The course examines the roots of anti-Semitism, the rise of fascism in Europe as it relates to the ideology of the Nazi Party, and the implementation of the Final Solution. The structure and purpose of the ghettos and death camps is studied, as well as efforts to resist. The course concludes by looking at what contemporary representations of the Holocaust mean for a post-Shoah generation.

HIST 4633:Modern German History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours

This course examines German history from Napoleon to Hitler. It explores Germany's ascent to global power and its dramatic losses in two world wars. Special attention is paid to the collapse of the Weimar Republic and the rise of the Nazi dictatorship. This course situates the Nazis within the larger narrative of Germany history and demonstrates the global influence of Germany in many areas of life from gymnastics and corporate R&D to cinema and gay rights.

HIST 4640:Modern Ireland

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course surveys Irish history from 1700 to the present. The primary emphasis is on the political history of Ireland, but the course also seeks to convey an understanding of Irish economic, social and cultural history, as well as of the influence of the Irish in America. Major topics include Irish nationalism, Ulster unionism, the Famine, Irish revolutions, the Irish Civil War, and the Troubles.

This course may be cross-leveled with HIST 6640.

HIST 4654:Russia to 1861

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course is a study of Russian history to 1861 that examines the cultural, social and political history from the origins of the Russian State in Kiev to the emancipation of the serfs.

This course may be cross-leveled with HIST 6654.

HIST 4655:Russia Since 1861

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course is a study of Russia since 1861 that examines the cultural, social and political history of Russia from the emancipation of the serfs to the present.

Course may be cross-leveled with HIST 6655.

HIST 4760:The Age of Imperialism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned 45 credit hours.

This course explores the Age of Imperialism in its political, social, economic, and cultural dimensions mainly from the 1870s through the 1960s. The course examines imperialism as a global phenomenon and utilizes inter-cultural, transnational, and transregional perspectives.

HIST 4765:History of Terrorism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of at least 45 credit hours

This course studies the history of terrorism, analyzing how terrorist attacks and definitions of terrorism change over time. Students explore why people use certain types of violence in specific eras to achieve distinct goals. All terrorism is political, and terrorist attacks are deeply embedded in the politics of their day. Thus, students also examine the historical societies affected by terrorism and their reactions to attacks.

HIST 4905:History of the Atlantic World

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course exposes students to the momentous socioeconomic transformations that occurred in the Atlantic basin in the wake of Christopher Columbus's voyage of 1492. The changes were engendered by the convergence of diverse cultural groups and the complex social and economic networks that they established in the Atlantic basin. Students examine the complex interconnections, the consequences, and the resultant new social and economic institutions which significantly informed our contemporary world.

HIST 4911:Themes in American Environmental History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must have earned at least 45 credit hours.

This course focuses on the interaction of the natural environment and human societies in North America from approximately 1500 to the present. Topics include colonial and imperial expansion, industrialization and the rise of modern technological systems, agricultural intensification, the development of contemporary environmental thinking, and the origins of the modern environmental movement. Selected themes present American environmental history within a global context.

History Education

HIED 4490:Special Topics in History Education

1-6 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

HIED 4498:Internship in Teaching Social Studies (6-12)

0 Class Hours 18 Laboratory Hours 12 Credit Hours

Prerequisite: Provisional teaching license issued by State of Georgia, full-time employment teaching social studies (7-12).

Student teaching experience in social studies for provisionally certified teachers. Supervision will be in collaboration with a mentor-teacher in a local school and a specialist in social studies education. Twelve (12) hours of this internship will automatically substitute for SSED 4475. Proof of professional liability insurance. Students are responsible for their own school placements.

HIED 4550:Methods of History Education

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Pre-Service Certificate, Admission to Yearlong Clinical Experience, Permission of Program Coordinator **Corequisite:** HIED 4650, INED 3300, and EDUC 4610

This course is an examination and application of curriculum issues, learning theories, teaching strategies, instructional materials, and assessment procedures for teaching secondary social sciences in the multicultural and diverse classrooms of today. Emphasis is on those practices suggested by research in secondary social science education and encouraged by our accrediting agencies.

HIED 4650:Yearlong Clinical Experience I

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: Admission to Yearlong Clinical Experience, Issued Pre-service Certificate, HIST 3271, and HIST 4488. **Corequisite:** EDUC 4610, INED 3300, and HIED 4550

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in history education. Under the guidance of a collaborating teacher and university

supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Proof of liability is required.

HIED 4660:Yearlong Clinical Experience II

0 Class Hours 24 Laboratory Hours 6 Credit Hours

Prerequisite: HIED 4550, HIED 4650, and permission of the program coordinator

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in history education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment. Proof of liability insurance is required.

Honors

HON 1000:An Introduction to Honors Education

1 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: Admissions to the University Honors Program

This course introduces students to the philosophy of Honors education, the requirements of the University Honors Program, and the Honors Foundations. Students learn strategies for maximizing their academic opportunities at KSU through the Honors Program and developing the eight Honors Foundations: appreciation of diverse perspectives, creativity and innovation, critical thinking, effective communication, information fluency, interdisciplinary learning, leadership, and professionalism

HON 1100:The First-Year Honors Colloquium: An Introduction to Honors Education

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program.

This course introduces students to the educational philosophy of the Honors College. Students explore and engage in various forms of academic inquiry, guided by a member of the Honors Faculty. In addition, they learn strategies for building strong academic credentials, finding good leadership and service opportunities, and preparing effective scholarship applications, both for internal (KSU) awards and for Rhodes, Marshall, Fulbright, or other major scholarships they may decide to pursue later in their academic career.

HON 2001:Introduction to Honors Research

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

In this one-hour introduction to Honors research, students will learn how to find a wide array of credible sources for research in any discipline; how to construct a research question and a thesis/hypothesis; how to write a literature review; and how to document their sources correctly using the documentation manual specific to their disciplines.

HON 2400:Honors Discovery

1 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: Admission to the University Honors Program

Honors Discoveries are short-term, not-for-credit learning experiences focused on topics outside the usual college curriculum. They often integrate disciplines, current events, or popular culture. Honors Discoveries involve small groups of Honors students learning through seminar discussion and experiential learning under the guidance of a KSU faculty member. May repeat once.

HON 2800:Honors Applied Learning Experience

0 Class Hours 0 Laboratory Hours 0 Credit Hours

Prerequisite: Admissions to University Honors Program

An Honors Applied Learning Experience is a way to acquire hands-on experience related to your major in a meaningful way that is less formal than an internship. Some common types of applied learning include volunteering, shadowing a professional in your future field, and observations. At least 48 hours of applied learning experiences are required, along with a written proposal within the first month of the semester and a written report and reflection on the experience by the final class day of the semester.

HON 3000:Honors Colloquium

1 Class Hours 0 Laboratory Hours 0-1 Credit Hours

Prerequisite: Admission to the University Honors Program

In this seminar, selected faculty lead Honors students in an exploration of a topic of interest.

HON 3002:Honors Research

0-3 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

This course enables Honors students to earn course credit and gain hands-on experience by assisting a professor with his or her research. Students work one-on-one within their major field or within a closely related field doing primary and/or secondary research for a research project conducted by the instructor. Both the student and the instructor are expected to present their findings to members of the campus community at the end of the semester.

HON 3100:Honors Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the University Honors Program

Students learn about conducting various kinds of research. Topics include advantages and disadvantages of different research methods, designs of studies, methods of collecting and analyzing data, ethical issues, application of findings, and protocols for writing reports and proposals. As their final project, students choose a topic and write a sample research proposal for the Honors Senior Capstone Experience.

HON 3102:Honors Peer Mentoring

0-3 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

This class is intended to help students develop mentoring and leadership skills within their major field, a field of interest, or a university service program (e.g., Student Affairs, Housing, the Odyssey Peer Mentoring Program, or the ATTIC). Students can work with a professor, a department chair, a program director, or an administrator to assist a student or a group of students, using a variety of teaching methods and study skills in which they will receive training.

HON 3203:Honors Teaching Assistance

0-3 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

This class is intended to help students develop teaching and leadership skills within their major field or a field of interest. Students will assist a professor in teaching duties. The class teaches students how to disseminate ideas and how to assess learning. It teaches communication skills since teaching assistants will work one-on-one, in small groups, and full class with students taking the course.

HON 3301:Honors Interdisciplinary Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

In this intensive reading and writing course, honors students will explore creative integrations of evidence from two or more disciplines, with emphasis on global learning. In addition to investigating the how and why of interdisciplinary thinking, they will examine the origins, consequences, and principles underlying their own assumptions about issues raised in class lectures and discussions.

HON 3600:Introduction to Community, Service, and Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission into the President's Emerging Global Scholars Minor

The purpose of this course is to enable students to prepare for a life of service, leadership and community engagement. The class will teach various leadership theories and how each theoretical approach is applied in a variety of organizations. Concepts learned through the course will be immediately applicable for students. Students will have the opportunity to place their theoretical learning in the context of active service.

HON 3620:Issues in the Global South

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HON 3600

Students must gain global competencies and an inclusive worldview to help further their global citizenship and prepare them for leadership positions within their specific academic discipline and intended careers. This course examines global issues related to developing countries, or what are collectively called the "Global South." The Global South numerically consists of the largest number of

nations in the world encompassing more than 150 countries in Asia, Latin America, Africa, and the Middle East. Despite their diversity, developing nations share several common characteristics. Common issues include war, poverty, oppressive gender norms, race and religious inequality, globalization, neo-liberalism, the impact of colonialism, and political and social instability. This course aims to help students identify and critically analyze the major issues and challenges facing developing nations in dialogue with specific contexts and greater global experiences. Using an interdisciplinary approach, this course leads students in examining a specific developing country in the Global South as a case study for understanding common issues faced by developing countries.

HON 3640:Introduction to Civic Engagement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HON 3620

This course will explore theoretical and applied concepts in civic engagement. Students will choose from a variety of opportunities to investigate and select options to learn and serve in the community for causes and ideas in which they believe.

HON 3660:The Developed World and Global Competency

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HON 3640

We live in a connected, complex world. Students must obtain global competencies to develop an inclusive worldview while maturing their commitment to responsible global citizenship in an integrated and interdependent world. They must master the skills necessary to become agents of change in leadership positions within their specific academic discipline and intended careers. Accordingly, students should understand how historical, political, economic, social, cultural, and other frameworks provide insights into developed countries, as they explore global issues, related challenges and their impact on the future. Through lectures, service engagements within a developed country, readings, and student led research and presentations, participants will increase their global knowledge while acquiring the analytical tools necessary to examine developed countries. Using an interdisciplinary approach, this course leads students in examining competency frameworks by focusing on a specific developed country or region other than the United States.

HON 4400:Honors Directed Study

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: Admission to the University Honors Program

This independent study course is designed to accommodate independent study through traditional or applied learning honors experiences that are exclusive of those offered in other Honors courses.

HON 4490:Honors Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Undergraduate Honors Program

This course addresses special topics of interest to Honors students and faculty.

HON 4497:Honors Senior Capstone Proposal

0-1 Class Hours 0 Laboratory Hours 0-1 Credit Hours

Prerequisite: Admission to the University Honors Program

To complete their Honors requirements, students design and execute a senior project reflecting original research; an original synthesis of existing research; an application of existing research to a new context; original creative work, or the design and coordination of a major-related service learning project. This first capstone course gives students credit for producing a substantive honors capstone proposal.

HON 4499:Honors Senior Capstone Project

0-3 Class Hours 0 Laboratory Hours 0-3 Credit Hours

Prerequisite: Admission to the University Honors Program

This final segment of the Honors Senior Capstone Experience requires an honors student to complete and submit the final capstone product(s): original research, an original synthesis of existing research, an application of existing research to a new context, original creative work, or the design and coordination of a major-related service learning project.

Hospitality Management

HMGT 3300:Introduction to Hospitality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: at least 30 earned credit hours

This survey course provides students with an understanding of the hospitality industry and the role it plays in both the U.S. and global economies. This course offers an overview of the industry, its economic impact, its history, its current and future challenges, and its business characteristics. The main goal of the course is to expose students to the hospitality industry and provide an understanding of the unique aspects of managing businesses in this industry.

HMGT 3397:Work Experience In Hospitality Management

0 Class Hours 0 Laboratory Hours 0 Credit Hours

All hospitality majors, upon completion of 400 hours of verifiable work experience in the hospitality, tourism, or related industries must sign up for this course. The work experience may be obtained any time from the freshmen year at KSU to the semester of graduation at KSU and must be completed in its entirety before a degree will be awarded. This course carries no credit hours, and thus no tuition fees. Grading is Satisfactory or Unsatisfactory based on successful completion of the work-hour requirement and a reflection paper, which details work experiences and involves the students' self-critique of their skills and knowledge in preparation for a career in the hospitality industry.

HMGT 3500:Guest Service Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HMGT 3300

This course explores the dimensions of successful service management of hospitality organizations. It also offers an in-depth study of the provision and management of high quality service provided within a hospitality business. It prepares students for enlightened guest service management and suggests creative approaches. The course will use an integrated viewpoint on issues of measurement, continuous service improvement, staff member training from a guest perspective, and the ability to benchmark among hospitality competitors are discussed.

HMG 4100: Hospitality Marketing and Revenue Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HMG 3300

Students in this course survey common marketing practices and revenue management issues that are unique to the hospitality industry. These practices include sales procedures, revenue management (i.e., setting room rates), the use of technology to maintain a leadership position compared to one's competitors, building a loyal customer base, a discussion of the relationship of marketing to overall organizational success, and an analysis of a hospitality operation's annual marketing plan.

HMG 4200: Hospitality and Travel Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BLAW 2200

This course acquaints students with the legal aspects of the hospitality and travel industry. Students examine laws and regulations governing the industry with specific emphasis on: sources and principles of hospitality and travel law; the hotel-guest relationships and the duty owed to each other; liability and sale of guestrooms, food and beverage; employment practices; government regulations; contracts; licensing and insurance; risk management; management and franchise agreements and; commercial and case law. At the completion of the course, students will be able to recognize and evaluate legal issues for the purpose of decision making in hospitality and travel work environments.

HMG 4300: Hotel Management and Operations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HMG 3300

This course examines hotels with students gaining a basic understanding of the various departments within these lodging venues. The relationship between major departments such as rooms division, and food and beverage are illustrated. Managerial and operational functions and decisions are identified and discussed. Students are exposed to key abilities and skill sets necessary to manage such facilities by familiarization with the role of a managerial position.

HMG 4490: Special Topics in Hospitality Management

1 to 3 Class Hours 0 Laboratory Hours 1 to 3 Credit Hours

Prerequisite: HMG 3300

Selected topics of interest to students and faculty in Hospitality Management.

HMGT 4500:Strategic Analytics for Hospitality Managers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HMGT 3300, HMGT 4100, and at least 90 earned credit hours.

This course focuses on the analysis of data as they apply to operational and financial decision making. Stemming from the operational hospitality manager's perspective, industry-specific tools are used to conduct predictive and prescriptive analytics, and financial and non-financial performance analysis, including but not limited to, service measurement, expenses and profitability, turnover and human resources information, guest satisfaction, competitor performance data, and other measures of operational performance in hospitality.

Human Services

HS 2100:Overview of Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This required course provides students with an overview of helping professions. Topics include: philosophy of human services; characteristics of human service workers; careers in human services; description of public, nonprofit and for-profit agencies; theory; and cultural diversity. Human service majors are required to take this course prior to applying for admission into the HS program. This course is also a prerequisite for other HS courses. Students must complete 20 hours of volunteer service as a requirement of this class.

HS 2200:Fundamentals of Nonprofits

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This introductory course is designed to provide knowledge, theory, and skills in the administrative/management aspects of nonprofit organizations.

Notes: This course is a required course for students seeking Nonprofit Leadership Alliance Certification.

HS 2300:Cultural Competence in the Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This foundation required course in human diversity enhances students' abilities to understand, evaluate, and provide culturally sensitive and competent human services to members of diverse groups. This course gives students the opportunity to reflect upon their own cultural development and to be more sensitive to others

HS 2400:Interviewing Skills for the Helping Professions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or HS Interest or Non-Majors with permission of Department.

This required course introduces students to interviewing skills in non-crisis settings. Communication skills learned in the course include relation skills building techniques within a problem solving model.

Additionally, students learn skills to identify client strengths and to work with resistant clients. Students are required to role-play, videotape, and critique skills learned in the course. The goal of this course is to expose the student to a variety of perspectives used by all human service workers.

HS 2900:Working with Support Groups

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2400 and (HS Majors or Permission of Department)

This course introduces students to basic theory, skills, methods and values necessary to lead support groups. Students will develop, facilitate/co-facilitate issue oriented groups for different ages, genders, etc.

HS 3000:Foundation Internship

3 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200, HS 2300, HS 2400, HS Majors only, Minimum 2.8 Institutional GPA

This course provides students the opportunity to begin to explore the helping professions by completing service learning while applying theoretical knowledge, skills and human services value systems. Specifically, HS majors will be expected to demonstrate knowledge content from prerequisite courses. Students will be expected to demonstrate beginning competencies in micro and macro practice.

HS 3100:Poverty and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2300 and (HS major or HS Interest or Non-major with permission of department)

This required course will provide an overview of poverty in the US, its causes, efforts to alleviate it, and its reflection in and by culture. Students will examine theories of the causes of poverty, insights into personal experiences of poor people, and critical thinking activities relative to this social issue.

HS 3200:Policy & Advocacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200; HS major or HS Interest or Non-majors with permission of the department.

Students gain the skills to analyze, interpret, and ultimately change policies and laws that impact service users, nonprofit organizations, and service delivery in the human services/social sector. A highlight of the course features ways in which advocates in the area of social policy have been mobilized to effect real change for diverse communities. Students have the opportunity to experience how activism and advocacy in their roles as human service professionals can lead to change.

HS 3300:Human Socialization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or HS Interest or Non-majors with permission of the department

This required course provides students with an overview of human development within the social environment. This course focuses on the effect of the environment on personal and social functioning.

HS 3400:Community Intervention

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or Non-majors with permission of the department

This required course focuses on macro-human service practice as a complement to preparation in micro-direct services. It is specifically designed to provide students with a working knowledge and basic skills required for helping communities and organizations address their needs and concerns. Students will learn various models of community and organizational intervention that can be used in diverse settings.

HS 3500:Research Methods for the Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3000 and (STAT 2332 or STAT 1401 or MATH 1160 or MATH 1190 or MATH 2202); HS majors or Non-majors with permission of department

This required course introduces quantitative and qualitative social science research methods with an emphasis on specific methods necessary for human service research and evaluation. This course enables students to become informed producers and consumers of research products, particularly in the human service areas. The emphasis is on basic concepts and underlying assumptions of various social science research methodologies and their design implications. It also develops skills in designing research projects with a particular emphasis on survey research. This course content has critical application in HS 4900-Capstone course.

HS 3600:Program Development and Evaluation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200

This course introduces students to the development and evaluation of human services programs. Students will discuss appropriate program evaluation techniques and design elements, including an evaluation plan.

HS 3650:Governance, Advocacy, and Leadership in Nonprofits

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200

This course introduces students to the theory and practice of governance, leadership and advocacy within non-profit organizations.

Notes: This course is a required course for students seeking Nonprofit Leadership Alliance Certification and is offered as an online course.

HS 3700:Aging and the Family

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or Non-majors with permission of the department.

This course introduces students to family systems theory and practice in relation to working with older

adults and their families. Impact on nursing home placement, Alzheimer's disease, death and dying, and depression as it relates to family function is stressed. Services and solutions to aging related problems will be included.

HS 3750:Death, Dying and Bereavement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or Non majors with permission of the department

In this course, students will examine death, dying, and bereavement from historical, contemporary, and cultural points of view. Students will also study skills necessary for working with dying and bereaved populations

HS 3800:Social Entrepreneurship and Enterprise

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200 or MGT 4001

This course introduces students to the theory and practice of social entrepreneurship and innovation.

HS 3850:Introduction to Nongovernmental Organizations and Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200 or Permission of Department

Students critically examine types, challenges, strategies and activities of international nonprofit organizations (i.e., nongovernmental organizations). This course provides a forum for students to analyze NGOs and their relationships to governments, civil societies, donors and other stakeholders. International development serves as the unifying theme of exploration.

Note: This course may be cross-listed with POLS 3850.

HS 3900:Dynamics of Family Violence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS majors or Non majors with permission of the department

This course provides students with a working knowledge of family violence issues. Students will become familiar with different theories regarding causation and treatment as well as society's response to family violence.

HS 3950:Perspectives on Child Maltreatment and Child Advocacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3300, PSYC 2103, SOCI 3364, or ECE 2250

In this course, students will study the history, comparative perspectives, legal framework and responses to child maltreatment. They will discuss and begin to develop the skills necessary to work in the field and speak about pertinent issues pertaining to child maltreatment and child advocacy.

HS 3960:Professional and System Responses to Maltreatment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3300, PSYC 2103, SOCI 3364, or ECE 2250

This course prepares students to identify and investigate child maltreatment and apply intervention strategies for children and their families including prosecution where indicated. Students will be able to discuss issues related to child witnesses such as recantation, suggestibility, memory and the impact of multiple interviews on children.

HS 3970:Global Child Advocacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The purpose of this course is to prepare students to recognize child advocacy issues around the world. The course is designed for students majoring in various disciplines where knowledge of child maltreatment and advocating for children will be necessary. Multidisciplinary approaches to advocacy in different countries throughout the world will be presented and discussed.

HS 4100:Grant Writing and Fundraising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200

In this course students study fundraising/development, including grant writing, special events, and basic finance in the nonprofit sector. It is appropriate for students working in all areas of Human Services as well as other majors who plan to work with nonprofits or governmental agencies.

Notes: This course is a required course for students seeking Nonprofit Leadership Alliance Certification.

HS 4200:Human Resources for Nonprofit Organizations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 2200

Students will examine theories and management practices necessary to effectively manage human resources for nonprofit organizations, including staff and volunteers.

Notes: This course is a required course for students seeking Nonprofit Leadership Alliance Certification.

HS 4300:Education Abroad in Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students will explore the issues and challenges of planning and will participate in the delivery of human services internationally.

HS 4400:Directed Study in Human Services

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

This course covers special topics and seminars external to regular course offerings. May include original research projects and practicum experiences.

HS 4430:Forensic Social Work

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3300 or permission of the department.

This course provides an overview of the interplay between human service professionals and the court systems. It will also focus on forensic social work practice and theory. Additionally, it illustrates skills for working with diverse populations across the lifespan and across diverse settings, such as community, medical, school, child welfare, mental health and addictions, and juvenile and criminal justice settings.

HS 4490:Special Topics in Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

This course provides selected topics of interest to faculty and students.

HS 4500:Working with Families

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3000 or Permission of Department

This course provides students an overview of the basic theoretical models used for family interventions. Students will also apply family intervention skills in a variety of practice simulations.

HS 4600:Working with Children and Youth

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3000 or Permission of Department.

This course focuses on theoretical interventions through the life span phases of childhood and adolescence. Intervention techniques within an ecological frame work are explored and assessed for use in a wide range of problem areas and settings.

HS 4700:Crisis Intervention

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS 3000 or Permission of Department

Students will learn crisis intervention theory, advanced communication skills and knowledge about different crises and crisis settings. Students will be required to role-play crisis intervention techniques.

HS 4800:Ethics in the Helping Profession

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS Majors only; Completion of 90 credit hours; Minimum 2.0 Institutional GPA

This course provides students with an understanding of the importance of ethics and values in the Human Services profession. The course exposes students to different ethical decision-making models and diverse value systems. Students demonstrate skills in applying NOHS Code of Ethics to ethical dilemmas in Human Services and balance their personal values in the process.

HS 4900:Capstone Seminar in Human Services

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: HS Majors only; Completion of 90 credit hours; Minimum 2.0 Institutional GPA and Permission of the Human Services Coordinator **Corequisite:** HS 4950

This course is the culmination of the Human Services major, and thus integrates students' education and experiences. It provides students with the opportunity to synthesize and apply learning from their program of study in a comprehensive manner. This course should be taken concurrently with HS 4950 in the student's final semester.

HS 4950:Advanced Internship for Human Services Professionals

1 Class Hours 16 Laboratory Hours 6 Credit Hours

Prerequisite: Permission of the Department

This course is an advanced supervised field experience that includes regular class meetings to discuss field experiences.

Inclusive Education

INED 3300:Educating Students with Exceptionalities in Inclusive Settings

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the teacher education program **Concurrent:**

SCED 4650 or ENED 4650 or FLED 4650 or HIED 4650 or MAED 4650 or EDMG 3300

This course prepares candidates to work collaboratively with families and school personnel to positively impact the academic, social/emotional, and behavioral development of students with exceptionalities. This course requires a ten-hour observational and instructional experience in assigned school placement(s). Verification of professional liability insurance is required prior to placement in the field experience. Candidates must have an issued preservice certificate for this course. This course fulfills Georgia HB 671 requirement. Beginning July 1, 2019, all candidates must earn a "B" or higher in this course for certification as stated in the Georgia PSC 505-2-.24 Special Georgia Requirements.

INED 3304:Education of Exceptional Students

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program. **Corequisite:** ECE 3330

Prepares candidates to work collaboratively with families and school personnel to have a positive impact on the educational, social and behavioral development of all students, including those with a full range of disabilities, in a diverse society. The course focuses on knowledge of legislative mandates for serving exceptional students, characteristics of exceptionality, best practice in facilitating teaching and learning, and accountability through assessment of outcomes. This course requires an observational experience in an assigned school placement. Verification of professional liability insurance is required prior to placement in the field experience. Fulfills Georgia HB 671 requirement.

INED 3305:Education of Students with Exceptionalities in an Inclusive Setting I

2 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: Admissions to EPP ***Concurrent:***

EDMG 4650 or ENED 4650 or FLED 4650 or HIED 4650 or MAED 4650 or SCED 4650

This course prepares candidates to work collaboratively with families, school personnel to have a positive impact on the educational, social and behavioral development of students, including those with a full range of exceptionalities, in a diverse society. It focuses on knowledge of legislative mandates for serving exceptional students and the characteristics of exceptionalities. This course, along with INED 3306, fulfills Georgia HB 671 requirement.

Notes: Acceptance into Yearlong Clinical Experience required.

INED 3306:Education of Students with Exceptionalities in an Inclusive Setting II

1 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to Teacher Education and INED 3305 ***Concurrent:***

EDMG 4660 or ENED 4660 or FLED 4660 or HIED 4660 or MAED 4660 or SCED 4660

This course prepares candidates to work collaboratively with families and school personnel to have a positive impact on the educational, social and behavioral development of all students, including those with a full range of exceptionalities, in a diverse society. It focuses on knowledge of legislative mandates for serving exceptional students, characteristics of exceptionality, best practices in facilitating teaching and learning, and accountability through assessment of outcomes. This course requires an observational experience in an assigned school placement. Verification of professional liability insurance is required prior to placement in the field experience. This course, along with INED 3305, fulfills Georgia HB 671 requirement.

INED 4000:Service Learning in Special Education

1-3 Credit Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program coordinator. A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program coordinator.

INED 4430:Applied Linguistics and English Language Literacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDUC 2120 and EDRD 3320, or approval of the department.

This course is an introduction to linguistic systems and their acquisition as they occur in the language development of English (ELs) and other limited English proficient learners. There is a strong focus on cognitive and social processes of language acquisition, including how functional, cultural, and critical literacies are constructed and promoted. Students will explore relationships among the four language domains, their connections to language proficiency levels and development of academic vocabulary.

INED 4431:Foundations for Teaching Diverse English Learners

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

EDUC 4610 or EDMG 3350

This course introduces middle and/or secondary teacher candidates to today's diverse English learner population, education policies that impact these students and how cultural resources can be leveraged to meet their academic needs. This course focuses on developing effective instruction, assessment, and literacy development for English learners and other linguistically diverse learners in middle grade classrooms. Specifically, candidates will a) examine the academic, linguistic and social needs of linguistically diverse learners, b) explore the differences between teaching reading and writing to English learners and native English speakers; and c) develop skills necessary for the differentiation, scaffolding language and content for English learners at a variety of language proficiency levels.

INED 4435:Foundations of Teaching Adolescent English Learners

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Corequisite: Yearlong Clinical Experience I or department approval

In this course, middle and/or secondary preservice content teachers are introduced to today's student immigrant population, education policies that impact urban youth, first and second language acquisition, linguistic elements, and linguistically responsive pedagogy. In addition, candidates will begin to develop an understanding of these concepts as they relate to meeting the academic needs of English learners and recognizing the cultural resources that they bring to the content classroom in relation to the larger sociopolitical context.

INED 4436:Foundations of Teaching Adolescent English Learners II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: INED 4435

This course focuses on developing effective instruction, assessment, and literacy development for English learners and other linguistically diverse learners in middle GRADE classrooms. Specifically, candidates will a) examine the academic, linguistic and social needs of linguistically diverse learners, b) explore the differences between teaching reading and writing to English learners and native English speakers; and c) develop skills necessary for the differentiation, scaffolding language and content for English learners at a variety of language proficiency levels.

INED 4437:Education for Linguistically Diverse Students

2 Class Hours 0 Laboratory Hours 2 Credit Hours

In this course, teacher candidates are introduced to first and second language acquisition, linguistic elements, and linguistically responsive pedagogy. In addition, students will begin to develop an understanding of these concepts as they relate to understanding the educational experiences of English learners and recognizing the vast cultural resources that they bring to the classroom in relation to the larger sociopolitical context.

INED 4482:Applied Linguistics for Teachers of K-5 English Learners

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to BS in Elementary Education, and EDUC 2130 **Corequisite:** ECE 3320

This course focuses on the major theories of first and second language acquisition, principles of linguistic systems (i.e., phonology, phonetics, morphology, syntax, pragmatics), and examines these topics drawing on a student-centered approach. Specifically, course content explores these topics as they relate to classroom-based language learning and implications for elementary classrooms. In addition, course content is framed within current conversations related to literacy, assessment, English language development standards.

INED 4483:Methods and Materials for Teaching ESOL in the K-5 Classroom

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: INED 4482 **Corequisite:** ECE 3305

In this course, candidates will articulate and apply knowledge of culturally and linguistically responsive pedagogy to the development of sheltered content area lessons for students learning English as an additional language. As part of lesson implementation, candidates will document and analyze the impact of instruction on English learners' language development and content learning through development of formative and summative assessments. A 20-hour field experience teaching English learners is a requirement for this course. The field experience also requires a GaPSC-issued pre-service certificate.

INED 4490:Special Topics in Inclusive Education

1-6 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

Industrial Engineering Technology

IET 1000:Orientation

1 Class Hours 0 Laboratory Hours 1 Credit Hours

This is an introductory course for Industrial Engineering Technology majors. The course covers the curriculum and how IET is used in industry applications.

IET 2227:Introduction to Statistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1113

As a study of descriptive and inferential statistics and applied probability, the course includes measures of central tendency and variability, statistical sampling and estimation, probability distributions, introduction to hypothesis testing and non-parametric statistics. Industrial applications rather than theoretical developments are emphasized. Computer based solution techniques are used when appropriate. This is the first of a two-course sequence.

IET 2305:The Role of Industrial Engineering Technology in Industrial Systems

3 Class Hours 2 Laboratory Hours 4 Credit Hours

As an introduction to industrial systems and processes, this course will explore the basic production processes from the viewpoint of systems and design. The role and responsibilities of a graduate will be explored as well as the principles related to human, quality, and organizational, legal and ethical aspects of professional practice. The design and operation of production processes are studied as they relate to the areas in manufacturing, distribution and service industries.

IET 2432:Introduction to Managerial Costing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduces the basics of managerial costing and concepts of tracking variable costs in business production such as administrative costs, labor costs, and cost of goods sold. Includes basic managerial cycle concepts of fixed and variable cost collection, calculations, and decision-making analysis. Topics include: costing vocabulary, concepts, managerial cycle, cash control, inventory, and labor costing.

IET 2449:Logistics and Supply Chain Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course offers an analysis of decision making in the current logistics environment and the tools needed for finding solutions to problems relating to purchasing, inventory, transportation, and warehouse management.

IET 3320:Advanced Logistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2449 or SYE 3710

This course will expand on the topics covered leading students to a deeper understanding of logistics and supply chain systems. Special emphasis will be given to current trends in the field such as global logistics, reverse logistics, nontraditional supply chains and risk assessment/disaster recovery. Each student will also research in more depth a single topic that interest them

IET 3322:Work Measurement and Ergonomics

2 Class Hours 4 Laboratory Hours 4 Credit Hours

This course will focus on work design and ergonomics in manufacturing. Topics will include work methods and production processes to improve operator effectiveness and reduce production costs. Techniques studied include operation analysis, motion study, work sampling, time study, line balancing and ergonomic applications.

IET 3339:Statistical Quality Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2227 or STAT 1401

A study of the fundamentals of statistical quality control is provided. Topics include statistical process control with emphasis on applications and techniques including control charts for variables and attributes, and process capability. Other topics include scientific sampling fundamentals, acceptance sampling by attributes and variables, and reliability.

IET 3356:Quality Concepts and Systems Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students in this course will learn and apply quality systems principles, methodology, and standards. Students will analyze the decision making process in quality, and evaluate quality systems for compliance with standards and performance of the organization. Student teams will analyze and propose a solution for a real world quality problem.

IET 3398:IET Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Department Chair Approval

This course is a structured experience in a supervised setting with an industry partner that is related to Industrial Engineering Technology. The goal is for student's to attain more practical experience while using their acquired academic skills.

IET 3403:Advanced Statistics with Application

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2227 or STAT 1401

This second of a two-course sequence will review of basic statistics, estimation, confidence intervals and hypothesis testing. Techniques for gathering, analyzing, and presenting technical and engineering data are presented. Topics include chi-squared contingency tables and goodness-of-fit tests, one- and two-way ANOVA, regression analysis, and design of experiment. Computer-based solution techniques are used where appropriate.

IET 3407:Six Sigma and Lean Manufacturing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

A study of current trends in quality as it relates to Six Sigma, Black Belt and Lean Manufacturing.

IET 3410:Principles of Team Dynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students will learn the skills and techniques to succeed as a team member in the workplace. Topics include leadership and communication skills, social influences, decision making, problem solving techniques, and team development.

IET 3424:Engineering Economy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1113 or STAT 1401 **Concurrent:**

MATH 1190

As an introduction to the effect of the time value of money, this course will use equivalent annual cost, present worth, internal rates of return, and benefit to cost ratios in making economic analysis. Tax consequences, replacement theory and economic life will be examined in the analysis of engineering problems.

IET 3433:Product and Process Costing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ACCT 2101

This course explores cost measurement related to manufacturing and non-manufacturing sectors through cost measurement and control in job order, process, standard and variable costing systems. Content includes the recording and control of material, labor and overhead costs, absorption and direct costing, budgeting, and cost volume profit and analysis.

IET 3511:Sustainability Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students will apply engineering skills to address ethical, ecological, economic, and social environmental issues. Students will explore the effects of human population on energy use, the quality of air and water, and the use of global resources for sustainability.

IET 3620:Warehousing Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores various methods and systems dealing with warehousing systems including such areas as management systems, operations, storage and handling strategies, work flow, automation, transportation modes and performance benchmarking.

IET 4115:Human Resources Management for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Senior Level Standing.

This course is a comprehensive study of human resource management used in industry today. Topics covered are organizational structures, labor relations, supervising professionals, legal issues, team-based environments, performance appraisal, leadership, wage and salary and employee benefits.

IET 4135:IET Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1113 **Concurrent:**

MATH 1190

This course is a comprehensive study of project concepts, such as project definitions, systems and methodologies, project cycles, roles and responsibilities of leaders and members, and procedures used in industrial and production environments. Topics include scheduling, controlling projects, time-cost tradeoff, resource allocation and project cost control.

IET 4151:Operations Management for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2227 or STAT 1401

This course includes basic production and inventory control systems. Areas of focus include forecasting, master planning, MRP, productivity, competitiveness, strategy, product and service design, process selections, capacity planning, and location planning.

IET 4400:Directed Study in Industrial Engineering Technology

0 Class Hours (3-15), variable Laboratory Hours (1-5), variable Credit Hours

Prerequisite: Permission of the instructor

This course covers special topics and seminars external to regular course offerings that allow a student to work individually with an instructor. Class structure and assessments depend upon the specific background and interests of the student and professor.

IET 4405:Operations Research - Concepts, Models and Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2227 or STAT 1401

This course will introduce the students to quantitative techniques used in the solution of industrial operations problems. Topics include linear programming, assignments, transportation/shipment techniques, integer linear programming, and decision analysis.

IET 4422:Facilities Design, Plant Layout, and Materials Handling

2 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: IET 3322 **Concurrent:**

IET 3433

Principles and practices in layout and material handling for industrial/service facilities planning are studied. A group project requires students to integrate product, process and functional design of a facility. Cost analysis for facility planning and operation is also utilized in the project.

IET 4451:Systems Simulation

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: IET 2227 or STAT 1401

This is an in-depth study of simulation as applied to manufacturing, inventory and distribution systems. Topics will include basic simulation and system modeling techniques, random sampling procedures, production modeling, inventory modeling and system evaluation. Emphasis will be upon hands-on simulation of various operations using ARENA, a PC-based graphical simulation program.

IET 4475:Senior Project

1 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: IET 4422 and IET 2449 and IET 3356 **Concurrent:**

IET 4135

This course focuses on the student completing a project that is a comprehensive application of the subject matter in the IET curriculum. A large-scale feasibility study is to be performed to emphasize the interrelated topics of logistical and production processes for a fictitious company. The course requires a formal written report and a defended oral presentation before industrial and academic experts.

IET 4490:Special Topics in IET

1-4 Credit Hours

Prerequisite: Department Chair Approval

This course covers special topics related to Industrial Engineering Technology such as process improvement, quality assurance, industrial systems and logistics. Students may take this course more than once for credit with approval of the department chair.

IET 4810:Ethics and Safety

1 Class Hours 0 Laboratory Hours 1 Credit Hours

This course is designed to provide the student with knowledge and information pertaining to ethics and safety regulations. A formal written report and oral presentation are required.

Industrial and Systems Engineering

ISYE 1000:Introduction to Industrial & Systems Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to the industrial and systems engineering profession and discipline through exposure to problems, principles, and practice. Integrated systems approach to problem

solving. Foundation of data manipulation and preparation for problem analysis. Development of communication skills, career opportunities, importance of professionalism, ethics, contemporary challenges, lifelong learning, and introduction to the department. How to plan for graduation and other useful items are also included.

ISYE 2600:Probability and Statistics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190

This course covers descriptive statistics, probability, sampling distributions and the central limit theorem, continuous and discrete distributions used in engineering, and inferences about single samples, including point and interval estimates for means, proportions and variances.

ISYE 3100:Systems Reliability & Maintainability

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and Engineering Standing

This course introduces engineering principles and methods used for system reliability and maintainability. Data collection, accelerated testing, FMEA, FTA, system safety, and availability, sustainability are introduced.

ISYE 3120:Contemporary Technological Systems: Design, Analysis, & Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 1000, ISYE 3100 and Engineering Standing

This course focuses on how system engineering principles are applied to modern technological and infrastructure systems. Defense, space, communication, energy, transportation, aerospace and manufacturing systems are analyzed. Other topics include architecture descriptions, heuristic problem solving, sociotechnical issues and managing complexity.

ISYE 3125:Statistical Quality Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332), ISYE 3600, and Engineering Standing

A study of the fundamentals of statistical quality control is provided. Topics include statistical process control with emphasis on applications and techniques including control charts for variables and attributes, and process capability. Other topics include scientific sampling fundamentals, acceptance sample by attributes and variables, and reliability.

ISYE 3150:Design & Improvement of Quality Processes

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

Students will learn quality history, philosophies, and the relationship of quality to organizational performance. Emphasis will be given to the management, organization, creation and evaluation of

quality systems necessary to assure organizational performance, including basic quality tools, and approaches to quality and process improvement such as Lean and Six Sigma.

ISYE 3200:Human Machine Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 1000 & Engineering Standing

In this course students will study the relationship between humans and the systems they interact with. Students will study human physical and psychological strengths and weaknesses as well as organizational and political issues that influence the effectiveness of Human Machine interactions.

ISYE 3300:System Dynamics and System Thinking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing and ISYE 2600

The course focuses on system dynamics modeling skills to be applied to complex socio-technical systems. The course provides the conceptual and technical knowledge necessary to conceptualize dynamic policy problems, formulate appropriate simulation models, and use models to understand socio-technical systems and develop effective policy interventions. A principle focus of the course is the significance of information feedback and circular causality in the behavior of social systems.

ISYE 3350:Logistics & Supply Chain Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

This course is an analysis of decision making in the current logistics environment and the tools and optimization models needed for finding solutions to problems relating to supply chain design and strategy, transportation, and warehouse management.

ISYE 3398:Internship

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Engineering Standing, Minimum of 60 credit hours completed, Minimum internship work hours of 10 hours/week, Minimum of three ISYE learning objective identified by site supervisor, The majority of the work is ISYE related, A signed Internship Agreement form

This is a specialized experiential learning development course that is determined by the students' needs and interests, in consultation with and under the guidance of an ISYE faculty member and site supervisor.

ISYE 3400:Deterministic Operations Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 3260

This course covers formulation and solution of deterministic models of operations research linear, integer, and dynamic programming. Transportation, assignment, shortest path, and minimum

spanning tree problems will be introduced to address various applications in the areas of engineering design, production planning and scheduling, inventory control, transportation and logistics.

ISYE 3407:Six Sigma and Lean Manufacturing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

An introduction to the application of the six-sigma methodology in the area of process improvement, and an introduction to lean manufacturing concepts. This course includes a Term Project where the student will use the concepts presented in this course to create a quality control plan for an organization that includes an acceptance sampling plan, a control chart, and recommendations for optimizing the overall efficiency of the organization.

ISYE 3450:Work Measurement Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and Engineering Standing

An examination of the principles and practices of work analysis and work measurement. Emphasis is on a variety of analytical tools and the development of the student's skill in the use of a stopwatch. This course includes a Term Project where the student will use the concepts of human factors engineering to create an optimal work area layout that maximizes production output and achieves the quality and safety objectives of the organization and also minimizes employee fatigue. The Term Project will include the creation of an engineering time standard for the optimized process.

ISYE 3600:Probability and Statistics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and Engineering Standing

This course covers hypothesis testing for means, proportions and variances (one and two samples), categorical data analysis (chi-square), analysis of variance, and introduction to regression analysis, with applications to engineering problems.

ISYE 4200:Engineering Optimization: Stochastic Decision Models

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and ISYE 3400 and Engineering Standing. Math Majors: Permission by ISYE Department and (MATH 3332 and MATH 3272)

Modeling and solution of decision problems under uncertainty. Topics include Markov Chains, stochastic programming, stochastic dynamic programming, theory, utility theory and simulation. Computer solution techniques are emphasized.

ISYE 4250:Manufacturing & Service Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing

An analysis of decision making in the current production environment and the tools and optimization

models needed for finding solutions to problems relating to production planning and scheduling, inventory, and warehouse design.

ISYE 4320:Advanced Logistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 3350 and Engineering Standing

This course will expand on the topics covered in the introductory logistics course, leading students to a deeper understanding of logistics and supply chain systems. Special emphasis will be given to current trends in the field, such as global logistics, reverse logistics, nontraditional supply chains, and risk assessment/disaster recovery. Each student will also research in more depth a single topic that interests them.

ISYE 4400:Directed Study

1-4 Variable Credit Hours

Prerequisite: Approval of instructor and department chair.

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. A Directed Study may include original research projects and/or practicum experiences.

ISYE 4425:Facilities Planning & Material Handling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 3450 and Engineering Standing

This course explores fundamental concepts, theory, and procedures for the study of facilities design and location; physical layout; material flow principles; and material handling. Product design, process planning, and schedule design are integrated through the development of analytical procedures and use of Visio layout planning software to enhance the decision-making process in the design, rationalization and improvement of factory and office layouts. The knowledge learned in this course is integrated with knowledge from selected related courses to develop a laboratory design project by students working in teams.

ISYE 4490:Special Topics

1-4 Variable Credit Hours

Prerequisite: Approval of instructor and department chair and Engineering Standing

Selected special topics of interest to faculty and students. This course may be taken more than once.

ISYE 4500:System Modeling & Simulation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ISYE 2600 or STAT 2332) and Engineering Standing

This course covers modeling and simulation of systems. Topics include basic simulation and system modeling techniques, random sampling procedures, input analysis, output analysis and system

evaluation. Practical implementations using common modeling languages and simulation software are emphasized.

ISYE 4900:Senior Design Project

1 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing **Concurrent:**

ISYE 4200 and ISYE 4500

The course focuses on the student completing a project that is a comprehensive application of the subject matter in the ISYE curriculum. The general intent of the project is to demonstrate the students' knowledge of the integrative aspects of the systems engineering process. There is a formal report and a defended oral presentation required before industrial and academic experts.

SYE 2100:Systems Analysis and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Sophomore standing

In this course students will learn techniques for developing, analyzing and portraying design and life cycle systems requirements. Students will learn to use tools and techniques including Quality Function Deployment, IDEF0 Charts, and Enhanced Block Flow Diagrams.

SYE 2290:Special Topics in Systems Engineering

1-4 Credit Hours

Prerequisite: Approval of the instructor and department chair.

The course covers special topics at the intermediate level that are not in the regular course offerings. This course may be taken more than once.

SYE 3320:Engineering Economics and Decision Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190

This course covers the basic tools used in engineering economic decision making, including discounted cash flow, replacement and timing decisions, depreciation, risk analysis, and pricing mechanisms. Topics may also include an introduction to preferences and utilities, equilibrium concepts, game theory, and incentive compatibility.

SYE 3700:Manufacturing and Production Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 2600 and ISYE 3400 (can be taken concurrently) and Engineering Standing

An analysis of decision making in the current production environment and the tools and optimization models needed for finding solutions to problems relating to production planning and scheduling, inventory, and warehouse design.

SYE 3710:Logistics and Supply Chain Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISYE 2600 and ISYE 3400 (can be taken concurrently) and Engineering Standing
An analysis of decision making in the current logistics environment and the tools and optimization models needed for finding solutions to problems relating to supply chain design and strategy, transportation, and warehouse management.

Information Security and Assurance

ISA 3010:Security Script Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides a study of secure programming and security scripting techniques. The course examines aspects of developing traditional computer software, applying additional controls and measures to prevent the development of vulnerable and exploitable code. The course then examines scripting techniques used in support of ongoing technical security functions.

ISA 3100:Principles of Information Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

ISA 3200:Network Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides a detailed examination of tools, techniques, and technologies used in the protection of information assets. This course is designed to provide a solid foundation in data communications and networking fundamentals and the security of networks and networking technologies.

ISA 3210:Client Systems Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes

this course.

This course is an exploration of client computer system security and vulnerabilities, including client computer architectures, and operating systems. It provides the detailed technical coverage necessary to protect computer information system clients by presenting the knowledge of client platform computer hardware components, client network devices and interfaces, as well as the structure and usage of common client operating system software from an information security perspective. Additional learning regarding ongoing maintenance and operational issues of client computing systems will also be included.

ISA 3300:Management of Information Security in a Global Environment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3100 , 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides a detailed examination of the administration of the information security function beginning with the strategic planning process and including an examination of the policies, procedures, and staffing functions necessary to organize and administrate ongoing security functions in the organization. Subjects include security practices, security architecture security in light of international regulation, competition, and operating environments is emphasized throughout the course.

ISA 3330:Information Security Approach to Crisis Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course. This course may not be used toward the ISA major.

This course is an interdisciplinary examination of detailed aspects of contingency planning and crisis management. It includes disaster recovery planning, business continuity planning, and a complete and detailed treatment of crisis management. Students will learn to develop and execute plans for implementing contingency operations when critical functions are disrupted.

ISA 3396:Cooperative Study in Information Security and Assurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3100, Admission to the Coles College Undergraduate Professional Program, and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised work experience for a minimum of two semesters at a site in business, industry, or government, focusing on some aspect of information security and assurance. For junior- or senior-level students who wish to obtain on-the-job experience in Information Security and Assurance, in conjunction with their academic training. Students may take a cooperative study for multiple semesters, however only six credit hours are applicable toward the BBA in Information Security and Assurance as Business Electives. Contact the department office for additional information on the requirements and restrictions of the cooperative study.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

ISA 3398: Internships in Information Security and Assurance

1-6 Credit Hours

Prerequisite: ISA 3100, Admission to the Coles College Undergraduate Professional Program, and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised work experience for one semester at a site in business, industry or government, focusing on some aspect of information security and assurance. For sophomore-, junior-, or senior-level students who wish to obtain on-the-job training experience in Information Security and Assurance, in conjunction with their academic training. Students can earn between one and six credit hours toward their degree programs subject to the programs' restrictions. Contact the department office for additional information on the requirements and restrictions for the internship.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

ISA 3710: International Issues in Information Security and Assurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course explores emerging international issues in information security and assurance. It provides content about the interaction between the organization, society, and public agencies across national boundaries. It examines the role of people versus technical security as currently debated by contemporary organizations from multiple cultures and nations. Each semester, the specifics of this course will be developed to leverage the current international information security landscape and the context of the scheduled course offering.

ISA 4200: Perimeter Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A detailed examination of the techniques, tools, and technologies used to support the protection of an organization's electronic perimeter. The course will examine the evaluation, selection, deployment, and administration of firewall, virtual private network, intrusion detection and prevention systems, and other applications used to guard organizational information from external attacks.

ISA 4220: Server Systems Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3010 and ISA 3200

This course is an exploration of server computer system security and vulnerabilities, including server

computer architectures, and operating systems. It provides the detailed technical coverage necessary to protect computer information system servers by presenting the knowledge of server platform computer hardware components, server network devices and interfaces, as well as the structure and usage of common server operating system software from an information security perspective. Additional learning regarding ongoing maintenance and operational issues of server computing systems will also be included.

ISA 4330: Incident Response and Contingency Planning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An examination of the detailed aspects of incident response and contingency planning consisting of incident response planning, disaster recovery planning, and business continuity planning. Developing and executing plans to deal with incidents in the organization is a critical function in information security. This course focuses on the planning processes for all three areas of contingency planning incident response, disaster recovery, and business continuity, and the execution of response to human and non-human incidents in compliance with these policies.

ISA 4350: Management of Digital Forensics and eDiscovery

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3200 and ISA 3210, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course focuses on the detection, isolation and response to security breaches and attacks. It provides a detailed examination of the entire computer forensic process and presents specific procedures required to respond to a computer crime incident. Subjects include recognizing unauthorized access, identifying file anomalies, and traffic monitoring.

ISA 4400: Directed Study in Information Security and Assurance

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor, major area committee, and Department Chair prior to registration.

Selected topics of advanced nature that are not in the regular course offerings.

ISA 4490: Special Topics in Information Security and Assurance

1-3 Credit Hours

Prerequisite: Specified courses which vary by topic, 60 credit hours with a minimum GPA of 2.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and department chair prior to

registration.

Selected special or current topics of interest to faculty and students.

ISA 4700:Emerging Issues in Information Security and Assurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the department chair; minimum 2.0 GPA

This course explores emerging issues in information security and assurance, and the role of organizational information security in state, regional and national policy. It provides content about the interaction between the organization, society, and public agencies. It examines the role of people versus technical security ideals currently debated by contemporary organizations.

ISA 4705:Information Security Competitions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the Department Chair

This course offers engaging, entertaining, measurable, and scalable methods of learning to enlist a new generation of information security and assurance professionals. The course revolves around participation in various competitions, which are designed to provide hands-on experiences and challenges to help students to develop and improve their skills and problem-solving abilities.

ISA 4805:Penetration Testing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3210 and ISA 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course contains a detailed examination of real world information security knowledge, enabling recognition of vulnerabilities, exploitation of system weaknesses, and implementation of safeguards against threats. Through hands-on exercises and a final project students will learn the art of penetration testing. Students who complete this course will be equipped with the knowledge necessary to analyze and evaluate systems security.

ISA 4810:Cyber Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 3210, ISA 4200 and ISA 4220, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course discusses the hardware/software tools and techniques associated with the protection of computer systems and networks. Students learn how to protect network resources as deployed in a typical organization. Course topics include policy and practice associated with the protection of communication resources, intrusion detection systems, firewalls, and use of various tools for system and network protection.

ISA 4820:Information Security and Assurance Programs and Strategies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ISA 4200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The course integrates learning from across the ISA program and encourages the student to develop skills in synthesis and communication (both written and oral) as well as teaching new material about the role of the CISO and the strategic and tactical planning and operation of the information security department in a variety of organizations. Outside speakers will supplement the course and provide the student additional, outside perspective on the information security industry.

Information Systems

IS 2200:Information Systems and Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101 and MATH 1111 or higher.

This course will provide an overview of fundamentals of information systems technologies and their applicability to real world scenarios. Topics may vary as technology changes but the students will learn the tools of productivity. The course aims to improve communications skills appropriate to the business setting.

IS 3020:Application Development I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will provide students with the knowledge and skills needed to develop applications in a development environment. Program logic and decision structure will be covered using a modern programming language and framework.

IS 3040:IT Infrastructure

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides foundation skills on information technology infrastructure. Topics include hardware; software; communications including LAN, WAN, and wireless network; transaction support; facilities for business continuity and security; infrastructure management best practices; service level agreements; and risk management including compliance, sourcing, disaster planning, auditing, controls, and standards.

IS 3060:Systems Analysis and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3020 and IS 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An introduction to the basic concepts underlying systems analysis and design, and the application of those techniques in the development of business information systems. The student will learn how to develop information systems based on user requirements and specifications. The course will expose the students to UML and other graphic modeling processes.

IS 3080:Information Resource Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3020 and IS 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Information Resource Management (IRM) constantly strives to improve its commitment to incorporate new technologies to advance the organization. The focus of this course is on management of information systems resources, technologies and people. Covers strategic planning of information resources investments, operations, and support; management of human, technological, and financial resources; management of end-user computing; IS functional organization and the CIO; and organizing information resources for efficient and effective services.

IS 3100:Information Systems Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: [(Earned grade of "B" or higher in ACCT 2101, ACCT 2102, ECON 2105, ECON 2106 and IS 2200) or Admission to Coles College Undergraduate Professional Program] or [completion of 60 credit hours with a minimum GPA of 2.0, IS 2200, and student in a Coles College Partner Program that includes this course].

This course illustrates how to effectively use, manage, and participate in the development of information technology applications that support common business processes. This course focuses on the interdependence among an organization's management, business processes, and information systems and provides hands-on experience in developing a business information system.

IS 3220:Global IS Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

In this course, students will be exposed to the basic principles of Global Project Management, effective teamwork and collaboration. It will prepare students to understand key issues in global project management such as project initiation, planning, scheduling, budgeting, risk analysis, quality

management and communicating and collaborating across political and cultural boundaries. Tools such as Microsoft Project will be used to develop and track Information Systems projects.

IS 3260:Web Development I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course presents introductions to many of the basic concepts, issues and techniques related to designing, developing and deploying Web sites. During the course, students will learn about Web design, HTML, basic scripting, and Cascading Style Sheets (CSS). Students will learn how to create sites both manually and through the use of Web site development software tool such as a text editor, Dreamweaver, and Adobe Photoshop.

IS 3280:Data Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 2200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course introduces the student to the properties, logic, design, implementation, and access to business databases. Particular emphasis is placed on the relational approach to database management and processing, which focuses more on the logical nature of a database than its physical characteristics. Relational database programming assignments are drawn from the fields of business and government.

IS 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: IS 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised credit-earning work experience for a minimum of two academic semesters with a previously approved business firm, private agency, or government agency. For sophomore, junior, or senior students who wish to obtain on-the-job experience in conjunction with their academic education.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

IS 3398:Internship

1-9 Credit Hours

Prerequisite: IS 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised credit-earning work experience for one academic semester with a previously approved business firm, private agency, or government agency. A research paper is required to receive credit.

For junior and senior students who wish to participate in an on-the-job experience in which they may apply their academic education. The work experience may not be with a current employer. The course will be graded on an S/U basis. The number of credit hours applicable to degree requirements is limited.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

IS 3560:Business Process Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The course addresses the methods and techniques required to analyze, design, implement, automate, and evaluate business processes. It introduces key concepts, process design principles, and approaches to business process management. Students learn to analyze organizational performance from a process perspective and identify, document, model, assess, and improve core business processes. The course will include hands-on exercises in an ERP system to demonstrate business process integration. The challenges and approaches to organizational change, domestic and offshore outsourcing, and inter-organizational processes will be discussed.

IS 3720:Advanced IT Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3220, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will explore advanced concepts related to IT Project Management (PM) including project selection and integration of the knowledge areas of PMBOK. Topics necessary for excellence such as PM methodologies and program management will be emphasized. We will elaborate on case studies of companies that manage global IT portfolios and have benchmarked best practices. Students will use case studies and project scenarios to familiarize themselves with real life issues, constraints, and solutions while using project management tools for scheduling, budgeting, and resource allocation.

IS 3740:Human Computer Interaction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3020 and IS 3260, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A comprehensive introduction to the principles and techniques that impact human interaction with computers. Topics include the foundations of human-computer interaction, building a graphical user interface, human-centered software evaluation, human-centered software development, graphical user-interface design, graphical user-interface programming, HCI aspects of multimedia, and HCI aspects of collaboration and communication. Major research and the building of a working graphical user interface are included.

IS 3760:Web Development II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3260, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The architectural model for computer-based application intense software systems centers around component development and deployment. This course will explore concepts related to the development of dynamic component-based web systems including web page connectivity to database systems and the development and utilization of Web Services. Web services include the ability to integrate code written in different programming languages and the emerging platforms, architectures, and technologies (such as XML, SOAP, and WSDL) that have arisen to support the next generation of software systems. Specifically students in this course will have an opportunity to directly interact with an Integrated Development Environment (such as Microsoft's .NET) and will be required to develop and implement dynamic Web pages and Web services.

IS 3815:Blockchain for Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

In this course, students master the essential and foundational technologies of blockchain. Students apply blockchain technologies to multiple business use-cases in sectors across several industries such as governance, finance, education, and healthcare. They use permissioned (private) and permissionless (public) blockchain services. The course engages the learner to apply immutable transaction ledger design to achieve triple-ledger accounting. Students engage in hands-on labs building blockchain use-cases. Activities include writing chaincode (Smart Contracts); creating blockchain business network participants, identities, and access control; coding a client application, as well as designing queries and events; building an interactive front end; and exploring the utility of blockchain deployment.

IS 3920:Application Development II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (IS 3020 or ISA 3010), 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This development course provides an advanced development environment using information systems technologies and their applicability to real world application scenarios. Students will complete projects and assignments designed to explore advanced object oriented programming languages in the context of application development for mobile, personal computer, and/or sever devices. Students will use modern application and/or web development technology tools in various environments such as agile, mobile, and social and dynamic development.

IS 3940:Data Warehousing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3100 and IS 3280, 60 credit hours with a minimum GPA of 2.0, and Admission to the

Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course provides an overview of planning, designing, building, populating a successful data warehouse and business intelligence system. Topics covered in this course include business requirement analysis, dimensional modeling, physical design, extraction-transformation-load (ETL) design and development, Analysis Service Online Analytical Processing (OLAP) database, and data mining.

IS 4400:Directed Study

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Special topics of an advanced nature that are not in the regular course offerings.

IS 4490:Special Topics

1-3 Credit Hours

Prerequisite: Specified courses (varies by topic), 60 credit hours with a minimum GPA of 2.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and department chair prior to registration.

Selected special or current topics of interest to faculty and students.

IS 4540:Data Mining

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: [(IS 3100 and Admission to the Coles College Undergraduate Professional Program) or (STAT 1401 and student in a Coles College Partner Program that includes this course)] and 60 credit hours with a minimum GPA of 2.0

Data Mining is the process of extracting useful information from data sets. It involves exploring and analyzing data sets to discover meaningful and valuable information. This course covers major data mining techniques including but not limited to data visualization, association analysis, classification, clustering, trend analysis, prediction, neural networks, text and web mining, and their applications in business. Various data analysis and data mining tools will be used to create analytical applications and achieve data mining goals.

IS 4560:e-Business Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3260, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Information systems that enable electronic transactions and communication have redefined the ways that firms compete, interact with value chain partners, and relate to customers. In the near future, all

business will be e-business, and every organization will be required to effectively implement e-business solutions. This course explores enterprise e-business applications and the issues organizations encounter as they leverage Internet technologies to enhance communication and transactions with stakeholders.

IS 4860:Global Information Systems Strategy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will discuss contemporary global IT issues with respect to the role of information systems in providing organizational competitive advantage. Strategic IT planning and the evaluation process to ensure proper alignment of technology to business goals are also explained.

IS 4880:IS Capstone Course

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IS 3060, IS 3220, and IS 3260, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is one of the capstone courses in the IS curriculum. In this course the students will apply the concepts learned in earlier courses to develop Information Systems projects. Tools such as VB.Net/ASP.NET will be used to develop the project and Microsoft Project will be used to develop and track project schedule.

Information Technology

IT 1113:Programming Principles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course covers the fundamentals of computer programming and the use of a computer for performing calculations and using data files. Concepts of counters, accumulators, decision-making, looping, subroutines, arrays, files and string processing are covered. A programming language such as Visual Basic is used for laboratory assignments.

IT 2290:Special Topics

1-4 (variable) Class Hours 0 Laboratory Hours 1-4 Credit Hours

Prerequisite: IT 1113 & permission from Department

The course covers special topics at the intermediate level that are not in the regular course offerings.

IT 3003:Professional Development & Entrepreneurship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Concurrent:

IT 3123

This course covers two major topics: professional development and entrepreneurship. The course will prepare students for internship positions and careers after graduation. The course will cover such things as creating a professional development plan, the STAR interviewing method, professional presentations, team dynamics, 10 principles of entrepreneurship, and innovation and entrepreneurship.

IT 3123:Hardware and Software Concepts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L both with a "B" or higher) or IT 1113

This course examines various hardware and software components and how they work together in a modern computing environment. Topics include an overview of computer organization and architecture, machine language and modern languages.

IT 3203:Introduction to Web Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1321 and CSE 1321L both with a "B" or higher) or IT 1113

This introduction course covers applications for the world wide web. Topics include current languages (such as HTML and JavaScript), basic web protocols, and human-computer interfaces for the web.

IT 3223:Software Acquisition and Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 1321 and CSE 1321L both with a grade of "B" or higher.

This course provides a high-level introduction to two areas that are crucial to the IT profession, namely project management and software acquisition. It introduces students to the phases both in the project management and software acquisition and implementation process. Since requirements are crucial to both activities, the course will provide students with an in-depth introduction to requirements engineering. The course will also introduce students to a widely used project management information system.

IT 3423:Operating Systems Concepts & Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3123 or CS 3503.

This course is an introduction to basic operating system principles. Topics include memory management, peripheral device management, file system management and process management. Different types of operating systems and their administrations are studied. Projects are carried out with simulations.

IT 3503:Foundations of Health Information Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to the field of health information technology (HIT). Students will become familiar with the content, use, and structure of the health care data and medical records, health information management, the fundamentals of healthcare workflow and process analysis and redesign as a necessary component of complete practice automation, and health information systems. Students will also become familiar with the health care delivery systems in the U.S. and IT organizations and resources.

IT 3703:Introduction to Data Analytics and Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3123 **Concurrent:**

CSE 3153

This course provides a comprehensive overview of processing technologies, systems, and application. Latest trends in data analytics, big data, and data science will be introduced.

IT 3883:Advanced Application Development

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: CSE 1322 and CSE 1322L both with a "B" or higher. **Concurrent:** (CSE 3153 or CS 3410)

This course will allow students to learn a second programming language and application development. Topics include review of language fundamentals, features of the programming language and development environment, and software development processes. This course will include course projects for hands-on experience with processes and tools.

IT 4153:Advanced Database

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 3153

This course will study how databases are used with programming applications. Topics include advanced PL/SQL (or similar database programming language), database transaction, database security, database maintenance, and distributed and web databases.

IT 4323:Data Communications & Networking

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3123 or (CS 3503)

Fundamental concepts of computer networking include topics such as properties of signals and media, information encoding, error detection and recovery, LANs, backbones, WANs, network topologies, routing, Internet protocols, and security issues. The focus is on general concepts together with their application to support the business enterprise.

IT 4333:Network Configuration & Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course continues the study of networks. Topics include design and implementation of networks including synchronization, scheduling, exception and deadlock resolution, client server and web based collaborative systems. Network security will also be covered. Cost estimates and speed are examined from a management perspective.

IT 4400:Directed Studies

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair

This course covers special topics of an advanced nature that are not in the regular course offerings. Students will complete a research project in the computing field supervised by a faculty member. Credit hours vary from one to three depending on the nature and content of the project student involved. Up to three credits may be applied to the major area.

IT 4403:Advanced Web and Mobile Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3203

This course covers advanced topics on web and mobile applications with a focus on modern web application architectures and mobile friendly user interfaces. Students will complete one major development project using the latest web technologies.

IT 4423:Linux/Unix Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3423 or CS 3502

This course introduces Linux/Unix operating systems. Topics include system administration, file systems and access permissions, regular expression, common tools and utilities, and network service configurations. Lessons will be enhanced using hands-on exercises.

IT 4490:Special Topics in Information Technology

1-3 hours Credit Hours

Prerequisite: Vary by specific topic, Junior/Senior Standing

Special topics selected by the Department Chair. Offered on a demand basis.

IT 4493:IT Undergraduate Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 Credit Hour Completion (junior standing)

This course promotes undergraduate research in information technology. Students develop research ideas and conduct research to investigate topics with the guidance of an IT faculty member. Students document their finding in final reports, present their findings, and prepare research papers for publication in appropriate venues.

IT 4513:Electronic Health Record Systems & Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3503

This course provides an overview of the importance of key technical aspects of electronic health records, the overall architecture, features and functions of major EHR systems. Hands-on exercises with EHR systems allow students to learn by doing.

IT 4523:Clinical Processes and Workflows: Analysis and Redesign

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3503 or concurrent

This course introduces the fundamentals of healthcare workflow and process analysis and redesign as a necessary component of complete practice automation. Students will become familiar with the concepts of processes, process analysis and redesign in the healthcare settings. Workflow and process mapping in healthcare improvement including detailed guidance, helpful tools, and case studies are introduced.

IT 4533:Health information Security and Privacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3503

Health information security and privacy are of utmost importance in today's healthcare environment. This course introduces the concepts, practices and concerns of information privacy and security unique to the healthcare settings. The course provides the student with a thorough understanding of the HIPAA security and privacy rules, meaningful use security requirements, security risk assessment and management, and how to integrate privacy and security into medical practices. Resources of privacy and security in healthcare are provided.

IT 4603:Introduction to Blockchain Technologies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 3153

This course covers the foundation of IT application and innovation. Topics include but not limited to blockchain and cryptocurrencies, Bitcoin, Ethereum, smart contracts, decentralized applications, machine learning and its applications in the enterprise, security and privacy concerns, operational risks as part of the IT support transformation.

IT 4613:Machine Learning Technology in Banking and Investment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4603

This course covers applications of different machine learning techniques to a variety of banking and investment problems. Topics include supervised learning for predictive analysis, unsupervised learning for financial data clustering and visualization, and deep learning/reinforcement learning for financial decision making.

IT 4623:Blockchain Technologies Security & Privacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4603 and IT 4823

This course provides an overview of security and privacy issues in domain systems. Topics may include, but not limited to, blockchain protocol, security and privacy criteria associated with cryptography techniques, identity management in blockchain, and secure smart contract writing. The course will also cover exploiting systems and developing mitigation approaches and best practices to prevent security breaches.

IT 4633:IT Technology Systems Internship

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4603 and (IT 4613 or IT 4623)

This course helps students gain practical experience in the field of blockchain and related domains. Students will work in a real-world project jointly supervised by an industry sponsor and a faculty advisor. In this project, the students will apply the knowledge acquired in the degree program to solve problems in enterprise settings, demonstrate ethical behavior as computing professionals, and practice soft skills such as communication and leadership skills.

IT 4673:Virtual IT Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (IT 3423 or CS 3502), IT 4323, and CSE 3153

This course explores the design, implementation and use of virtualization, including desktop and server aspects such as deployment, clustering, storage and security. A high level overview of the various certifications available will be discussed. A project will be completed as part of the course.

IT 4683:Management of Information Technology and Human Computer Interaction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 3153

This course provides a study of the information needs in a formal organization and the information systems required to meet those needs within the planning, control, operating and decision-making processes. User acceptance of IT applications that crucially depend on the HCI component will be covered.

IT 4713:Business Intelligence Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CSE 3153

This course introduces the concepts, practices, technologies and systems of business intelligence, which supports enterprise level data management, analytical processing, and reporting.

IT 4723:IT Policy and Laws

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3123 and IT 3223

This course covers current policies and law, and ethical, legal, and social issues in IT through lectures, discussion, research, and case studies. Topics include copyright, patents, trademarks, trade secrets, computer ethics, computer crime, computer abuse, cultural impact, web issues, information warfare and current legislation.

IT 4733:Big Data System Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3703

This course introduces contemporary distributed big data platforms and database systems. Topics include big data computing paradigms, big data platform architectures and administration, and big data database concepts and administration.

IT 4773:Machine Learning for Enterprise Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3703

This course covers enterprise applications of machine learning on data analytics. Topics span the complete life cycle of data analytics from envisioning the problem, identifying proper data, selecting suitable machine learning methods, evaluating modeling performance, and deploying the results to improve decision-making.

IT 4793:Applied Data Driven Solutions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3703

This course will apply data technologies and applications in a chosen application domain and expose students to real world problems and issues. Students will analyze, design, and develop a practical and technical data driven solution in a chosen field, such as healthcare, finance, security, social media, academia, sports, and utilities.

IT 4823:Information Security Administration & Privacy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 2300 or MATH 2345) and CSE 3153 and (IT 3123 or (CS 3503)

The student develops knowledge of the principles of information assurance at the policy, procedural, and technical levels to prepare the student for a role as a business decision-maker. Real-world examples from the text and current events will be used to demonstrate the applicability of the techniques of information assurance.

IT 4833:Wireless Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course covers methods and techniques to secure wireless networks against threats and attacks. The topics may include Security and Cryptography, Network Security Protocols, Security and Layered Architecture, Voice-Oriented Wireless Networks, Data-Oriented Wireless Networks, Security in Traditional Wireless Networks, Security in Wireless LAN, Security in Wireless Ad Hoc Network, Special Topics such as Mobile Security.

IT 4843:Ethical Hacking for Effective Defense

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course focuses on detection of network and system vulnerabilities by taking an attacker-like approach to system, network, and data access. Topics include network attacks and defenses, Operating System and application vulnerabilities, social engineering attacks, and malware. Ethical, legal implications of network attacks are also discussed.

IT 4853:Computer Forensics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4323 or CS 4622 or ECET 3400

This course studies techniques and tools in computing investigation, digital evidence collection, recovery, and analysis. Topics include: Legal issues relating to digital evidence, recover deleted files and discover hidden information, reconstruct user activity from e-mail, temporary Internet files and cached data, assess the integrity of system memory and process architecture to reveal malicious code.

IT 4863:Web and Mobile Application Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3203

This course introduces web and mobile application security issues, hands-on practices to explore security vulnerabilities, and best practices to defend against vulnerabilities in web and mobile.

IT 4883:Infrastructure Defense

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course provides an overview of the infrastructure assessment and penetration testing process and the processes and techniques for improving the defensibility of that infrastructure.

IT 4893:Internet of Things: Applications and Security

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: IT 4823 and IT 4323

This course introduces core knowledge and skills required to develop and design innovative IoT solutions. Students will analyze the challenges, apply appropriate patterns for user-interaction and learn about trends and characteristics in IoT. In addition, students will evaluate the security design of a suite of IoT-connected products.

IT 4983:IT Capstone

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IT 3423, IT 3223, IT 3203 **Concurrent:**
IT 4323, IT 4823

Students work in teams to develop or implement a real-world IT solution integrating the knowledge acquired in preceding IT courses. Components that are emphasized include technical design, research, documentation, project management, leadership, team work, and communication skills. The final result will be an IT solution addressing a typical business or organizational need such as data management or networking, which will be evaluated by faculty members, Industrial Advisory Board members, and project owners.

Instructional Technology

ITEC 3100:Improving Learning with Technology in Elementary Classrooms

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

Teacher candidates learn to use technologies to promote student achievement in elementary content area and technology literacy standards. Special topics include using technology to improve students' English language learning, to assess student learning, and to differentiate instruction. Candidates also learn to manage their digital activities in ways appropriate for a professional educator; advocate for students without beyond-school access; and teach K-12 students how to use technology safely, ethically, and legally.

ITEC 3200:Improving Learning with Technology in Middle Grade Classrooms

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

Teacher candidates learn to use technologies to promote student achievement in middle school content area and technology literacy standards. Special topics include using technology to improve students' English language learning, to assess student learning, and to differentiate instruction. Candidates also learn to manage their digital activities in ways appropriate for a professional educator; advocate for students without beyond-school access; and teach K-12 students how to use technology safely, ethically, and legally. This is a three-credit (3) course.

ITEC 3300:Improving Learning with Technology in High School Classrooms

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

Teacher candidates learn to use technologies to promote student achievement in high school content area and technology literacy standards. Special topics include using technology to improve students' English language learning, to assess student learning, and to differentiate instruction. Candidates also learn to manage their digital activities in ways appropriate for a professional educator; advocate for students without beyond-school access; and teach K-12 students how to use technology safely, ethically, and legally. This is a three-credit (3) course.

Insurance

INS 4500:Principles of Risk Management and Insurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is an introduction to the identification of risks and their management. Topics will include fundamental life, health, retirement, property and liability exposures and their management through avoidance, control, retention or transfer. The characteristics of life, health, property and liability insuring devices are also covered.

Integrated Science

ISCI 2001:Life and Earth Science

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of any four-hour laboratory science course at the 1000 or 2000 level. Life and Earth Science Concepts defines science, examines how science is done, and develops an understanding of fundamental concepts in biology, geology, and meteorology. Laboratories will emphasize experimental design and data analysis. This course is primarily for early grades and middle education majors and cannot be used for credit towards a degree in Biology programs.

Notes: Not acceptable for use as General Education requirement.

ISCI 2002:Physical Science

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of any four-hour laboratory science course at the 1000 or 2000 level. Physical Science defines science, examines how science is done, and develops an understanding of fundamental concepts in astronomy, chemistry and physics. Laboratory experiences will emphasize experimental design, data analysis, and inquiry methods. This course is intended for early grades education majors. Cannot be used for credit towards a degree in Biology programs.

Notes: Not acceptable for use as General Education requirement.

Interactive Design

IAD 2100:History and Fundamentals

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores fundamental principles of visual and interactive design as well as historical approaches to interactive design. Students apply knowledge of fundamentals and history to interactive projects by learning prototyping tools.

IAD 3000:Interaction Design I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCID 2170

This course introduces students to contemporary interaction design theory with an emphasis on user-centered design in digital environments. Students read interaction design theory before using prototyping tools to create their own projects.

IAD 3150:Visual Design I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 2100 and TCID 2002

Building on knowledge and tools learned previously, students further explore principles and theories of visual design. The class sets expectations concerning the necessary visual design skills of interactive design students.

IAD 3230:User Interface Design I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 2100 and TCID 2002

Building on knowledge and tools learned previously, students further explores user interface design. The class sets expectations concerning the principles and theories of screen design that professionals need to know.

IAD 3300:Ethnography for Designers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3000

This class engages in a qualitative analysis of the relationship between digital technologies and end users. In doing so, this course exposes designers-in-training to ethnographic approaches as a way to understand and empathize with end users, a core feature of user experience design. Students read anthropological texts and apply this knowledge to ethnographies related to understanding ends users.

IAD 3398: Internship

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3000, at least 24 hours in Area F and Upper Division required classes, and permission from the department.

This course is an opportunity for students to apply principles and techniques of interactive design in a specific organization. Learning is experiential and must supplement, not duplicate, learning in the classroom. Students are responsible for finding an internship, but the program helps in the effort. Students submit a written proposal describing the internship according to program guidelines. Each internship is monitored by the student's advisor.

IAD 4000: Interaction Design II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3000

This course expands students' ability in contemporary interaction design theory by incorporating the agile design process. Students read about agile design before understanding how interaction design applies to agile work environments. Students use prototyping tools to create their own projects.

IAD 4150: Visual Design II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3150

In this project-based class, students continue to grow their visual design skill sets by working on projects. The focus of this class is to expand students' knowledge of principles of visual design through experiential learning.

IAD 4230: User Interface Design II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3230

In this project-based class, students continue to grow their user interface design skill sets by working on projects. The focus of this class is to expand students' knowledge of the principles of user interface design through experiential learning.

IAD 4400: Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course focuses on specific topics of an advanced nature not in the regular course offerings that relate to specific student needs.

IAD 4490: Special Topics in Interactive Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course consists of selected special topics of interest to faculty and students.

Integrated Health Science

IHS 2100:Introduction to Health Sciences and Professions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course will introduce students to the current structure of the U.S. healthcare system and the professions supporting it. The description of each healthcare profession will introduce relevant governing bodies for the profession, educational requirements, certification and licensure requirements, work schedules and environment, salary ranges, and job trends/prospects. The course will also introduce students to the importance of interprofessional healthcare practices. Various external healthcare professionals will convey first-hand knowledge and advice concerning their professional experiences and training.

IHS 3240:Fundamentals of Behavioral Health Care

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to the basic principles of behavioral health care. Students will examine the fundamentals of mental illness in society and various intervention methods and strategies. The course introduces students to behavioral health care service delivery systems particularly within underserved communities and populations.

IHS 4445:Healthcare Innovation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IHS 2100

This course is designed to examine the process of developing and implementing innovative solutions to complex healthcare issues. Emphasis is placed on use of design thinking protocols, principles of social innovation, and development of sustainable solutions for health care delivery systems.

IHS 4760:Integrated Health Science Capstone

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: IPE 4413 and IHS 4445

This course highlights project management principles and places students within healthcare organizations to work within interdisciplinary teams to address real-world complex health related issues. Students will integrate and synthesize knowledge, skills, attitudes and values from the array of courses taken in the Integrated Health Science major as they engage within interdisciplinary teams.

Integrative Studies

INTS 1198:Introduction to Integrative Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Through this course, students learn about the field of integrative studies and begin making connections between experiences in the classroom and the broader world. In order to facilitate this exploration, students examine issues in the Arts, Humanities, Social Sciences, and Natural Sciences

and gain a familiarity with the academic and popular forms of writing, media, and research in these areas of study. Students will engage with disciplinary insights in order to examine complex contemporary issues using an integrative lens. The integrative learning process will involve research, articulating knowledge, using evidence to draw conclusions, and self-reflection.

INTS 2298: Integrative Studies Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course will introduce various quantitative, qualitative, and mixed methods techniques available to interdisciplinary researchers. Through course readings and activities, students will consider the limits and potential of different methods, particularly in relation to an interdisciplinary problem. While developing their methodological toolkit, students address other critical steps in the research process— including identifying relevant disciplines for examining an interdisciplinary issue, developing a research question around that issue, writing a literature review, and documenting findings. The course will culminate in an interdisciplinary research project and an appreciation of how research enriches our understanding of and relation to the world in which we live.

INTS 3001: Integrative Approaches to Social Justice and Inclusion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

In this course, learners will explore how the power of integrative thinking and methods can be leveraged toward a more socially just and inclusive society. Using the framework of intersectionality, learners will examine the interdependent systems of discrimination, disadvantage, and inequity experienced by individuals or groups related to the individual's or groups' interconnected identity characteristics. Using social constructivist pedagogies, learners will function as a community in which they explore and share their own interdisciplinary expertise and perspectives to articulate problems and conceptualize solutions related to social justice and inclusion.

INTS 3398: Integrative Studies Internship

3 Class Hours 0 Laboratory Hours variable 0-9 Credit Hours

Prerequisite: Completion of 60 credit hours

This course provides students the opportunity to apply their theoretical knowledge, communication skills, and emerging professionalism in a particular work environment. The coursework includes class discussions, group and individual activities, class presentations, and documentation of internship experience. The course is designed to provide applied learning experiences that build upon prior coursework and offers opportunities for integrated and reflective learning.

INTS 4400: Directed Study in Integrative Studies

0 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: 3.0 GPA; approval of program director

Course covers special topics and seminars of an advanced nature, external to regular course

offerings that allow a student to work individually with an instructor. Course may include original research projects and/or practicum experiences.

INTS 4490:Special Topics in Integrative Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor.

This upper-division course includes special topics of an interdisciplinary nature offered on a rotating basis.

INTS 4498:Senior Seminar in Integrative Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of at least 90 credit hours.

This Capstone course prepares students in the Integrative Studies program to understand the methods and advantages of their integrative, interdisciplinary education. Students will demonstrate the ability to formulate, research, and solve problems through an interdisciplinary lens that reflects the unique degree each student has built through their course work at KSU. The culmination of this labor will be a major creative and/or scholastic work. Additionally, the course will help prepare students for graduation by developing post-graduate and career-oriented skills that connect directly to each student's individual degree. These two parts, the academic and applied, once integrated, represent the skills and knowledge needed to successfully transition from university to life after graduation.

Interdisciplinary Studies

CLST 3398:Cultural Studies Internship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval by Internship Coordinator

A structured off-campus experience in a supervised setting that is chosen in relation to the student's focus and interests in one of the interdisciplinary programs in the College of Humanities and Social Sciences. Students will meet with the internship coordinator to develop an appropriate plan that will lead to the writing of a research-oriented paper or research project. 100 hours per semester required at internship site.

ISD 2001:Introduction to Diversity and Social Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

This course is required for students pursuing an ISD Certificate. The course introduces students to global theories and practices of diversity and social justice with a focus on 20th century social movements in the US. It addresses the roots of interdisciplinarity through prominent scholars concerned with diversity and social justice. Students learn about social movements that have had a significant impact on our own time, including women's liberation and anti-globalization.

ISD 3100:Interdisciplinary Studies Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ASIA 3001, or AADS 1101, or AADS 1102

This is an introductory course on the nature of interdisciplinary academic inquiry. Students acquire a foundational understanding of research methods used by interdisciplinary scholars and professionals. Topics may include an introduction to social scientific and/or humanities-based methods and qualitative and quantitative analysis. The class discusses strategies for selecting a framework and analytical approach and engage ethical questions associated with producing research in interdisciplinary studies.

ISD 3333:Year of _____ in Interdisciplinary Context I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course helps students develop a holistic understanding of a particular country/region. Offered in conjunction with KSU's "Year of" series, students gain an in-depth appreciation for the country by examining its geography, social structures, histories, philosophies, religions, politics, economics, literatures, films, arts, cultures, etc. It aims to break down stereotypes and promote a richer, more complex sense of place and identity. Important recurring themes in this course include identity formation, social justice and community engagement.

ISD 3334:Year of _____ in Interdisciplinary Context II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course helps students develop a holistic understanding of a particular country/region. Offered in conjunction with KSU's "Year of" series, it emphasizes contemporary issues as students examine the country's geography, social structures, histories, philosophies, religions, politics, economics, literatures, films, arts, cultures, etc. It aims to break down stereotypes and promote a richer, more complex sense of place and identity. Important recurring themes in this course include identity formation, social justice and community engagement.

ISD 3398:Interdisciplinary Studies Internship

0 Class Hours 9-18 variable Laboratory Hours 3-6 variable Credit Hours

Prerequisite: Approval of internship coordinator

This course offers students a structured experience in a supervised setting chosen in relation to students' interests. Students meet with the internship coordinator to develop an appropriate plan, which leads to the writing of research project. Students will demonstrate an ability to apply their knowledge of diversity and community engagement to current situations, issues, or problems in a community to which they are connected.

ISD 3399:ISD Certificate Colloquium

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Declaration of the Certificate and ISD 2001. **Corequisite:** ISD 3398: Internship
The Interdisciplinary Studies Colloquium course provides a capstone experience for students pursuing an ISD Certificate. The course provides students pursuing a certificate a community forum for discussing civic and community engagement projects developed through their service internships. Students examine interdisciplinary perspectives on knowledge and diversity, engage in activities beyond the classroom, and participate in a discussion forum. The course should be taken concurrently with the ISD Internship.

ISD 4490:Special Topics in Interdisciplinary Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This upper-division course includes special topics of an interdisciplinary nature offered on a rotating basis.

STS 1101:Science, Technology, and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides students with the knowledge and tools necessary to critically examine the development and integration of science, technology, and society. The course seeks to help students better understand the world in which they live, the broader implications of their major course of study, and the complex social, ethical, and moral choices presented by modern science and technology in human relationships.

STS 4000:International Issues in Science and Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Examines the technical, social and moral issues raised by current international advances in science and technology. Places emphasis on comparative studies by examining a series of topics, each from the perspectives of a variety of nations.

STS 4400:Topical Studies in Science and Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Examines the technical, social and moral issues raised by a particular issue of current concern in international science and technology. Students develop technical understanding, historical perspective and current events literacy relevant to the topic explored in a given term.

International Studies

EURO 3234:Introduction to the European Union

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The purpose of the course is to introduce students to the European Union (EU). The course traces the development of the EU from its origins in the 1950s to the present day. Student will explore the EU's governing institutions, including their structure and relationship to one another. Students will be introduced EU policy-making processes. Students will use this knowledge of structures and processes to explore current EU policies and issues, including EU-USA relations.

EURO 4130:EU Law & Legal Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course focuses on a study of EU legal institutions and processes in the context of international law and in comparison to those of the United States. Topics include the treaties that provide the legal basis of the EU; the body of statutory law enacted by the Parliament, the Council, and the Commission; the judicial decisions adjudicated by the Court of Justice; and finally, the administrative rulings issued by the European Ombudsman.

EURO 4160:Federalism & Multilevel Governance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course exposes students to the political development of political structures in the European Union. The course will address in depth elements and principles of federal political systems. It explores the progressive development of federal type structures in European Union political structures. To emphasize the salience of such developments, the course compares EU-style federalism with federal structures and processes found in the United States.

EURO 4230:Doing Business in the EU

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course focuses on political institutions and legal environment that impacts the conduct of business in the European Union. It examines the business environment for domestic and international firms and on how political decisions affect the business environment. It will show how some of the differences are born of economic factors relating to the functioning of the single market, while others are associated with the cultural heterogeneity

EURO 4260:European Monetary Union

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the origins and development of European Monetary Union (EMU). It examines the economic and political reasons for EMU, the key decisions and steps in its creation, and its governing structures. We explore eurozone crises, including major events and developments, key causes and explanations, and the responses of European Union (EU) member states and institutions.

The course concludes by exploring the consequences and implications of EMU for the EU and for Transatlantic relations.

EURO 4330:EU Science & Technology Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This class is an examination of EU science and technology policy compared to that of the United States. The course examines how governments can encourage scientific and technological innovation and whether government can (or should) try to limit or control technological innovation. Historical contexts as well as current trends will be examined, with specific emphasis on policy outcomes.

EURO 4430:EU Environmental Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the politics and policy-making processes associated with environmental policy in the European Union. Students will explore the historical development of EU environmental policy (EEP), identify the principle actors involved, and inquiry into the modes of governance applied. The course uses concrete empirical cases to illustrate core concepts and to provide a historical and developmental perspective. Principal emphasis is given to analyzing and understanding politics and political processes and in evaluating policy effects.

EURO 4530:EU Social Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the politics and policy-processes associated with social policy in the European Union. Students will trace the historical development of the EU's role in social policy, identify the principle actors involved, and explore the variety of social welfare models found among EU states. The course uses concrete empirical cases to illustrate core concepts. Principal emphasis is given to analyzing and understanding politics and political processes and in evaluating policy effects.

EURO 4630:EU Communications Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines politics and policy-making as it pertains to broadcasting, voice telephony & the internet in the European Union. The course begins by examining the history of EU communications policy. It then explores policy developments and how successive enlargements have impact policies and practices. The course concludes by examining the future of EU policy in this issue domain.

EURO 4730:EU Foreign Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course explores the challenges facing the European Union as it attempts to pursue a more integrated and coherent common foreign policy. Students will examine the evolution of the EU's role in foreign policy. To do this, students will identify relevant EU governance institutions and explore the manner in which these institutions interact with key foreign policy institutions in member states.

Students will explore these relationships with specific reference to economic, security and environmental policy

EURO 4760:EU-US Foreign Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course examines the relationship between the European Union and the United States. Students explore the breadth and depth of the transatlantic cooperation across an array of issue domains. Students also explore areas where the parties disagree, sometimes significantly. Where differences exist, students examine the sources of transatlantic tensions, what has been done to address them, and consider whether disagreements can be resolved. Issues addressed include trade, regional and global security, terrorism, and the environment.

EURO 4830:EU in Comparative Perspective

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the European Union in comparative perspective. Students will explore how problems of regional governance are addressed in the EU as well as in other regions. Students will look both at institutional structures and policy processes. Students will make specific comparisons to the African Union, MERCOSUR, NAFTA, and ASEAN. Further, students will explore whether meaningful differences exist between regional organizations found in the developed world and those found in the Global South

Italian

ITAL 1001:Introduction to Italian Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to Italian language and culture stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Italian culture.

Notes: Not open to native speakers of Italian.

ITAL 1002:Introduction to Italian Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 1001 or permission of the instructor.

Introduction to Italian language and culture, part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Italian culture.

Notes: Not open to native speakers of Italian.

ITAL 2001:Intermediate Italian Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 1002, or permission of the instructor.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of Italian.

ITAL 2002:Intermediate Italian Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2001 or permission of the instructor.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Course will serve as a transition between intermediate and upper-level courses in the language..

Notes: Not open to native speakers of Italian.

ITAL 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2001 or the equivalent.

This course emphasizes skill development and refinement in the areas of critical reading and writing in Italian. Designed to give students extensive experience in reading and writing in Italian, the course focuses on the relationship between writing and reading, and on ways to improve one through the other.

ITAL 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2002 or permission of the instructor.

Stresses expansion of effective listening comprehension and speaking skills through culturally and linguistically appropriate activities.

ITAL 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2002 or permission of the instructor.

General review of grammar through composition and other written activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

ITAL 3304:Literature and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 3200 or permission of the instructor.

This course is an introduction to Italian literature and culture from the origins to 1848. Students learn

about literary and artistic movements as well as cultural issues. Students also work across the curriculum, focusing on interdisciplinary issues within the Italian literary context and developing their competence in critical analysis of Italian cultural and literary issues from a global perspective. Readings and discussions are in Italian.

ITAL 3305:Literature and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2002 or permission of the instructor.

Introduction to Italian literature and culture from 1848 to the present. Students examine literary and artistic movements as well as cultural issues. Students also work across the curriculum, focusing on interdisciplinary issues and developing their competence in critical analysis of Italian cultural and literary issues from a global perspective. Readings and discussions are in Italian.

ITAL 3390:Upper-division Study Abroad in Italian

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or Senior status and permission of the department chair.

This course fulfills the study abroad elective for the minor in Italian Studies. The content of the course may vary depending on available course offerings in the foreign institution. The chair of the Department of Foreign Languages must preapprove the use of this course as partial fulfillment of the requirements for the minor in Italian Studies and/or for the degree in Modern Language & Culture.

ITAL 3398:Internship

1-9 Credit Hours

Prerequisite: ITAL 3302 and ITAL 3303 or permission of the instructor.

Supervised, credit-earning work experience of one semester requiring use of Italian in the work place. Prior approval by department coordinator and internship supervisor is required.

ITAL 4400:Directed Study

1-3 Credit Hours

Prerequisite: ITAL 2002 or permission of the instructor.

Covers special topics and seminars external to course offerings that allow a student to work individually with an instructor.

Notes: Requires prior approval by instructor and department chair.

ITAL 4402:Contemporary Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 3303 and ITAL 3305 or permission of the instructor.

An examination of the historical, social and political contexts of the contemporary Italian experience through the analysis of different cultural representations such as film, media, plastic arts, music and literature.

Notes: Readings and discussion in Italian.

ITAL 4404:Commercial Italian

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 2002 or permission of the instructor.

This course is an in-depth study of business practices and the language of business that focuses on verbal and written communication as well as economic, social and political factors that are important to the conduct of business in the Italian-speaking world. Readings and discussion are in Italian and in English.

ITAL 4434:Topics in Language Literature and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30 credit hours

This course presents an exploration of a period, movement or genre in literature, a topic in culture, or language-related issues. Topics are chosen for their significance and impact on Italian culture.

Notes: Readings and discussions in Italian.

ITAL 4456:Advanced Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 3303 or permission of the instructor.

This course is an advanced study of grammar from a linguistic perspective. It provides an overview of phonetics, phonology, morphology, and syntax. The course exposes students to dialectical variations of the Italian language and stresses development of oral proficiency. The course is taught in Italian.

ITAL 4490:Special Topics in Italian

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 3302 and ITAL 3303 or permission of the instructor.

Special topics relevant to the study of the Italian society.

ITAL 4499:Senior Seminar

3 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ITAL 3304 or ITAL 3305 and permission of the instructor.

This capstone course designed to synthesize and connect the students' prior academic experiences in the major and related fields of study. Students prepare a reflective essay and a research paper to present to the faculty of the Department of Foreign Languages. Papers and presentations are in Italian.

Japanese

JPN 1001:Introduction to Japanese Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to Japanese language and culture stressing progressive acquisition of effective communications skills in both the written and spoken language and an understanding of the practices and products of Japanese culture.

Notes: Not open to native speakers of Japanese.

JPN 1002:Introduction to Japanese Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Japanese, or JPN 1001, or the equivalent.

Introduction to Japanese language and culture, part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Japanese culture.

Notes: Not open to native speakers of Japanese.

JPN 2001:Intermediate Japanese Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Japanese, or JPN 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways.

Notes: Not open to native speakers of Japanese.

JPN 2002:Intermediate Japanese Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Japanese or JPN 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities.

Notes: Not open to native speakers of Japanese.

JPN 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JPN 2002 or the equivalent.

This course is a study of selected readings of signs, news, and literary and cultural works to increase vocabulary, enhance grammar skills, and develop reading skills. This course is designed to give students extensive experience in reading Japanese.

JPN 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JPN 2002 or the equivalent.

This course emphasizes expansion of effective listening comprehension and speaking skills in Japanese through culturally and linguistically appropriate activities. Communicative tasks are limited to those in uncomplicated and straightforward social situations.

JPN 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JPN 2002 or the equivalent.

This course is a general review of grammar and composition and other writing activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

JPN 3304:Readings in Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: JPN 3200 or the equivalent.

This course introduces students to selected readings in Japanese culture, through which they expand their vocabulary and learn new grammar. Students also learn about cultural issues within the Japanese context and develop their competence in critical analysis of the issues from a global perspective. Readings are in Japanese and discussions are in Japanese and English.

Korean

KOR 1001:Introduction to Korean Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to Korean language and culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Korean culture.

Notes: This course is not open to native speakers of Korean.

KOR 1002:Introduction to Korean Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Korean or KOR 1001 or the equivalent.

This course is an introduction to Korean language and culture, Part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Korean culture. This course is not open to native speakers of Korean.

KOR 2001:Intermediate Korean Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Korean or KOR 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways. This course is not open to native speakers of Korean.

KOR 2002:Intermediate Korean Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Korean or KOR 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. This course is not open to native speakers of Korean.

KOR 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: KOR 2002 or the equivalent.

This course emphasizes skill development and refinement in the areas of critical reading and writing in Korean. This course is designed to give students extensive experience in reading and writing in Korean.

KOR 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: KOR 2002 or the equivalent.

This course emphasizes expansion of effective listening comprehension and speaking skills in Korean through culturally and linguistically appropriate activities. Communicative tasks are limited to those in uncomplicated and straightforward social situations.

KOR 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: KOR 2002 or the equivalent.

This course is a general review of grammar through composition and other writing activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

KOR 3304:Readings in Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: KOR 3200 or the equivalent.

This course introduces students to selected readings in Korean culture, through which they expand their vocabulary and learn new grammar. Students also learn about cultural issues within the Korean context and develop their competence in critical analysis of the issues from a global perspective. Readings are in Korean and discussions are in Korean and English.

KSU Seminars

ICT 2101:Information and Communications Technology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is a digital literacy course that explores how computers and the Internet have revolutionized society and become an integral part of every profession. This course provides the foundation for students to become informed and creative problem-solvers capable of using and envisioning the potential of digital technologies. Students will learn to apply fundamental principles of computing, including but not limited to digitization, digital logic, and algorithmic thought, to enhance their skill in the use of digital applications, create digital resources, and assess digital assets. Other topics include digital security and privacy, the implications of digital disruption, and careers in the digital age.

Latin

LATN 1001:Introduction to Latin Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to Latin stressing progressive acquisition of grammar, composition, prose translation and pronunciation.

LATN 1002:Introduction to Latin Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Latin or LATN 1001 or the equivalent.

Introduction to Latin, part II, stressing continued progressive acquisition of grammar, composition, prose translation and pronunciation.

LATN 2001:Intermediate Latin Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Latin or LATN 1002 or the equivalent.

Review of Latin grammar and syntax. Prose translations from selected prose authors such as Livy, Caesar, Tacitus, and Sallust.

LATN 2002:Intermediate Latin Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Latin or LATN 2001 or the equivalent.

Continued refinement of grammar and reading skills through the study of prose and poetry from the Golden Age of Latin Literature.

LATN 3500:Topics in Latin Poetry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LATN 2002 or permission of the instructor.

In this course, students analyze Latin poetry, poetic syntax, meter, and style through readings from selected poets. The course content focuses on one or more of the following poets: Catullus, Vergil, Ovid, Horace. Students review Latin grammar and syntax, build vocabulary, and develop a variety of reading strategies. Readings are Latin; instruction is in English. The course may be repeated once for credit with permission of the department chair with different content.

LATN 4490:Special Topics in Latin

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LATN 2002 or permission of the instructor.

Selected topics of special interest to faculty and students.

LATN 4500:Topics in Latin Prose

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LATN 3500 or permission of the instructor.

In this course, students read and analyze Latin prose by various writers. The course content focuses on one or more of the following prose writers: Livy, Caesar, Cicero, Tacitus, Propertius, Tibullus, or Seneca. Students review Latin grammar and syntax, build vocabulary, and develop a variety of reading strategies. Readings are in Latin; instruction is in English. The course may be repeated once for credit with permission of department chair when content differs.

Latin American/Latino Studies

LALS 1102:Understanding Latin America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

In this course students critically approach Latin America/Latino-US from interdisciplinary perspectives while analyzing texts within a social, political, cultural, economic, historical, artistic, and geographical context. The concept of a global understanding of Latin America within the notion of a hemispheric America is emphasized, as well as how different nations relate to one another in terms of identity formation and statehood. Issues of representation in the context of immigration and multicultural relations are also studied.

LALS 3550:U.S. Latinx Communities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 30+ credit hours.

This course introduces students to broader conversations surrounding U.S. Latinx communities such as migration trends and scholarly debates in Latinx studies. Historically-established Latinx communities and contemporary Latin American immigrants have taken up residence in U.S. cities

and towns due to labor demands, U.S. foreign intervention, and political instability plaguing Latin America. The course examines the impact of such trends on Latinx communities in the U.S.

LALS 3770:Latin American Cinema

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course critically examines the representation of social issues and identity formation in films from Latin America, as well as how they are related to the globalization of American popular culture. This course also focuses on the social and political conditions that affect film-making in the region.

LALS 3780:Trends in Latin American/Latino Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on current trends, issues, problems, and strategies in the field of Latin American and Latino Studies. Particular attention is paid to how socio-demographic variables, such as race, gender, class, religion, and/or ethnicity impact the issues facing the Latino/Hispanic populations in Latin America and the United States.

LALS 4490:Special Topics in Latin American/Latino Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LALS 1102

This course is a study of selected special topics of interest that are relevant to the field of Latin American and/or Latino Studies. Course may be repeated with a change in content. Students may use the course as an elective towards the Minor in Latin American/Latino Studies. Depending on the content, the course can also serve as an elective course for Minors in African/African Diaspora Studies, American Studies, or Gender and Women's Studies.

Leadership Studies

LDRS 2000:Finding the Leader Within

3 Class Hours 0 Laboratory Hours 3 Credit Hours

In this course students are introduced to leadership concepts and practices. Students observe and practice skills and competencies associated with ethical, successful leadership. Students discover and develop their own personal leadership styles and philosophies, learning how to balance tasks and relationships and overcome obstacles. Students identify their leadership strengths and weaknesses and create and implement strategies to improve their leadership skills.

LDRS 2100:Leadership & Historic Social Movements

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Drawing on examples from around the world, this course focuses on an examination of the leadership process: individuals influencing a group to achieve a goal in historic social movements. Students

examine leadership within the historical, social, political, and cultural context of select social movements. This course facilitates the development and/or advancement of socially conscious, historically minded, and reflective thinking about leadership in a variety of settings.

LDRS 2200:Contemporary Leadership Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

In this course students are introduced to critical challenges, key contexts, and emerging trends of leadership. Students observe and practice skills and competencies associated with the dynamics of adaptive change, and the practices of authority and leadership. Students discover and develop how to engage in collective problem-solving, and distinguish leadership from authority. Students identify and reflect upon current leadership practices and work together to create leadership strategies and innovations for future leadership practice.

LDRS 2300:Leadership & Intercultural Competence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students examine the connection between leadership and intercultural competence. Using theoretical and reflective frameworks, students will explore how cultural contexts impact perceptions and practice of leadership. Students will be able to draw from their own cultural experiences, and those of others, to formulate a leadership practice that is culturally responsive and demonstrates intercultural competence.

LDRS 3000:Foundations of Leadership: History, Theory, and Application

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course serves as an introduction to leadership theory and practice. Learners will examine the history, theories, models, and approaches of leadership in an experiential, self-reflective learning environment that allows learners to apply theoretical leadership concepts to real world applications. In this course, learners also examine some of the major factors that affect leadership, such as situation, context, gender, race, and culture. This study of theory, coupled with real-world investigation and personal reflection, should help learners better understand the ethical and practical issues inherent in the study and practice of leadership in ways they can use in their work, school, and personal lives, as well as prepare them for further leadership courses. No previous exposure to leadership or leadership studies is required.

LDRS 3100:Change and Conflict Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

In this course, students explore the relationship between leadership and the concepts of change and conflict in organizational and societal contexts. Students study phases of the change process, characteristics of change, and how personal leadership characteristics affect change. Students also examine and discuss the qualities effective leaders demonstrate during change processes and strategies to manage conflict. Finally, students consider how they respond to change and conflict as they develop their personal leadership practices.

LDRS 3200:Leadership in a Global Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Leadership is examined through an interdisciplinary, global lens. Students learn how cultural context affects leadership style, conflict negotiation, and ethical decision making; examine how leaders might impact culture; and develop their own multicultural awareness and competencies. Contemporary cases of how leadership varies depending on the cultural context in which one is leading are researched. Key geographical regions of the world will be analyzed from a leadership perspective, and an individual cultural experience highlighting the intersection of leadership and culture also occurs.

LDRS 3201:Leadership and Multiculturalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LDRS 3000

Following an introduction to theoretical foundations of leadership, this course emphasizes leadership as a socially and culturally bound process and phenomenon. Anchored by the relational leadership model, learners will identify, investigate, analyze, and reflect on leadership behaviors and competencies critical to the leadership process within multicultural spaces. Students will conduct individual and group inquiry to examine social and contemporary contexts that influence leadership and multiculturalism.

LDRS 3300:Leadership and Decision Making

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

In this course, leadership and decision-making are examined from multiple perspectives. Students learn the process of making a decision utilizing the WRAP framework. Other factors involved in the decision making process are explored and identified. The dynamics of the relationship between leadership and decision making are discussed and analyzed. Research of leaders helps students better understand the decision making process and the impact of decisions.

LDRS 3400:Service As Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Based on the Social Change and Servant Leadership models, students explore the connections between service and leadership. This course examines the differences between civic engagement, civic responsibility and social activism. Students participate in engagement projects within the community, attend social activism functions and develop and present projects geared toward social change. Students leave this course with an understanding of how servant leaders can impact their community.

LDRS 3401:Research and Inquiry in Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LDRS 3000

This course provides a basic introduction to research techniques and methodologies. It is designed to assist learners in their development of skills to be informed consumers of research and research design. Leadership Studies has origins in the social sciences and as such this course will provide an overview of research methodologies commonly employed in the social sciences to include a variety of qualitative and quantitative methodologies. Learners will also learn important concepts necessary for understanding statistics in the context of research. At the conclusion of this course, learners should have the background needed to plan, execute, and evaluate the results of a simple research project.

LDRS 3500:How Not to Lead

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

In this course students define and explore unethical and ineffective leadership concepts and practices. Through the use of case studies and current events students identify circumstances and contexts in which bad leadership emerges. Students also identify the roles followers play in perpetuating negative leadership. Finally, students identify their own leadership style strengths and weaknesses to lay the groundwork for personal ethical and effective leadership practices.

LDRS 3600:Ethics In Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LDRS 3000

This course examines leaders' behaviors through an ethical lens and delves into the moral decision-making process and the role of ethics in leadership. By analyzing case studies of current and historical events, students gain an understanding of ethical leadership decision making while touching on the theories of ethics and their application. Students can expect to focus on the importance of understanding ethics in a global environment.

LDRS 3700:Leadership and Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LDRS 3000

This course makes connections and draws conclusions about leadership, particularly as it applies to gender and women. Through a review of research on gender and leadership styles and traits, learners will integrate leadership theory and experiences to understand the unique state and current thinking regarding issues pertaining to women and leadership. Issues for interrogation include the impact of stereotypes and discrimination on the representation of women as leaders, the lack of parity between men and women in leadership, and obstacles to women's progress in attaining executive-level roles of leadership. Recent progress toward equal opportunity, remaining challenges, and strategies for securing parity in top level leadership will also be examined in the course.

LDRS 3800:Leading in Groups

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is designed to develop the student's knowledge of group processes, group development, and the influential role of leadership within each area. Students will come to understand leadership from an interdisciplinary, organizational perspective and apply this understanding in practical applications throughout the semester.

LDRS 3900:Leadership & Global Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces learners to events, trends, and problems that make up global issues facing citizen-leaders in an interdependent world. In this course, learners work towards becoming educated citizens with the capacity for developing leadership approaches that are critical for effectively and responsibly tackling global issues. Using interdisciplinary resources, learners will design leadership recommendations that creatively address select global issues.

LDRS 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: LDRS 3000, 3.0 GPA, approval of advisor, instructor, and department chair.

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. An LDRS Directed Study may include original research projects and/or practicum experiences that allow the student to gain in-depth exposure to the topic of leadership.

LDRS 4490:Special Topics in Leadership Studies

3 Class Hours 0 Laboratory Hours variable 1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

This course is a study of selected special topics of interest to faculty and students. Course may be repeated with a change in content.

Management

MGT 3100:Management and Behavioral Sciences

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: [(Grades of "B" or higher in ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106) or Admission to Coles College Undergraduate Professional Program] or [completion of 60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course].

This course introduces students to the field of management, focusing on basic principles and concepts applicable to all types of organizations. The evolution of functional and behavioral aspects

of management and organization theory are presented in the context of political, societal, regulatory, ethical, global, technological and demographic environmental forces.

MGT 3190:Business, Ethics, and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course examines the relationship between business and society and the role of ethics in employee and managerial decision-making and behavior. Using a stakeholder management approach, the course explores uses and potential abuses of business power on internal and external stakeholders. Models for integrating ethical concerns into business decisions are examined.

MGT 3200:Operations Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECON 2300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Generic modeling techniques are applied to the planning, operation and control of the production of goods and services. Topics include: quality control, facility location and layout, material requirements planning and project scheduling.

MGT 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised work experience program for a minimum of two academic semesters at a site in business, industry or government. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

MGT 3398:Internship

1-9 Credit Hours

Prerequisite: Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency. A research paper is required to receive credit. For junior or senior students who wish to participate in an on the job experience in which they may apply their academic training. The work experience may not be with a current employer. The course will be graded on an S/U basis.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

MGT 3600:Introduction to International Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An introduction to the global business environment, this course examines the discrete and interactive effects of the geographic, historical, sociocultural, political/legal, economic and technological forces that shape international commercial activity and its consequences.

MGT 4001:Organizational Behavior

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

Everyone in today's organizations, whether they choose the role of senior executive, manager or employee, needs an understanding of how people behave in organizations. Organizational behavior is the study of behavioral science applications in organizations- what people think, feel and do in and around organizations. This course draws on psychology, sociology, anthropology and related disciplines, but its distinction is that the goal for understanding human behavior is to improve individual performance and organizational effectiveness. The study of organizational behavior examines individual characteristics in a richly diverse workplace, group dynamics in task completion, and the profound effects that individual and group behaviors have on an organization's success.

Notes: MGT 4001 and MGT 4160 cannot both be used. MGT 4001 and MGT 4170 cannot both be used.

MGT 4002:Human Resource Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

People are an organization's most valuable assets. This course provides students with an understanding and capability to manage these assets (self and others) to support the goals of the organization. It covers the human resource practices and people management skills used to attract, motivate, develop, and retain employees. Students also develop self-management skills and personal career growth strategies to enhance their professionalism and employability.

Notes: MGT 4002 and MGT 4160 cannot both be used. MGT 4002 and MGT 4170 cannot both be used.

MGT 4003:Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

In this course, students learn to complete organizational projects on time and on budget. This course introduces students to project management (PM) from both a process and project tool standpoint. Students focus on understanding project definition and scope, resource allocation, task dependencies and risk management. Students also learn how to use PM software in the context of managing a team project.

MGT 4004:Managing Your Company

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 4001, MGT 4002, MGT 4003 and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

In this course, students learn to develop a long-term vision and competitive strategy for a company. Students learn to balance short-term objectives with long-term strategic goals. They learn to recognize interactions among the internal factors (resources and processes) and external environments, and the impact of both on performance. Students also demonstrate their ability to make decisions, and to analyze, justify, and professionally communicate the results of those decisions.

Notes: MGT 4004 and MGT 4120 cannot both be used.

MGT 4123:Family Business Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course explores the unique challenges and opportunities involved in owning and/or managing a family business. By attending the class, students learn to identify and address challenges related to responsible ownership, succession, corporate governance, family governance, professionalization, and family office. Both family and non-family members' perspectives are explored and addressed.

MGT 4124:Franchise Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Franchise Management is an introduction to the field of franchising as it concerns the franchiser (the business who grants the business rights to franchisees), and the franchisee (the individual or

business who obtains the rights to operate the franchised business in accordance with the chosen method to produce or sell the product or service). It covers the body of knowledge on how to expand an existing business through domestic or international franchising as well as how to analyze and decide how to buy and manage a franchise.

MGT 4130:Commercial Real Estate Ventures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course addresses the acquisition, development, operation, and disposition of commercial real estate properties, with a special emphasis on shopping centers. Dimensions of inquiry include: ethical decision making, specific legal requirements associated with real estate ventures, and stakeholder (developers, investors, local communities, and public sector) analysis.

MGT 4161:Organizational Communications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course develops student understanding of communication processes within organizations, increases ability to diagnose and deal with organizational communication problems, and enhances skills in using communication to improve individual, group, and organization-wide effectiveness.

MGT 4171:Employee and Labor Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 4002 and [Admission to the Coles College Undergraduate Professional Program] or [60 credit hours with a minimum GPA of 2.0 student in a Coles College Partner Program that includes this course]

The study of employee and labor relations includes union organizing, collective bargaining, labor legislation, contract negotiation, grievance resolution, arbitration, and international labor movement issues. Alternative dispute resolution methods, cooperative labor/management policies and practices, and union-free work environments are covered.

MGT 4172:Compensation and Reward Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 4002 and [Admission to the Coles College Undergraduate Professional Program] or [60 credit hours with a minimum GPA of 2.0 student in a Coles College Partner Program that includes this course]

Compensation systems and practices that attract, motivate, and retain employees are investigated in this course. Topical areas include wage and hour regulations, job evaluation, pay structure development, incentive systems, merit pay decision making, and strategic benefit systems design.

MGT 4173:Human Resource Selection

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 4002 and [Admission to the Coles College Undergraduate Professional Program] or [60 credit hours with a minimum GPA of 2.0 student in a Coles College Partner Program that includes this course]

This course focuses on the acquisition, selection, and placement of human resources to maximize organizational effectiveness. Topics include strategic human resources planning, EEO requirements, labor force forecasting, job analysis methods, recruitment practices, employee selection techniques, and testing procedures that increase employee-job fit.

MGT 4174:International Human Resource Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program OR student in a Coles College Partner Program that includes this course.

This course focuses on human resource management functions required to implement international or global strategy. Areas examined include international recruitment and selection, performance management, training and development, compensation, labor relations, management of expatriates and their repatriation, dealing with host country nationals, and career management in the international context. Special topics include human resource law and issues in specific countries outside the U.S. and managing a multicultural labor force in the U.S.

MGT 4185:Technology Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course focuses on the management of technologies within organizations. Specific topics include the management of innovation, technological development, research and development, the justification and strategic implications of new technologies, and the development of a technological strategy. The management of both manufacturing and information technologies will be emphasized.

MGT 4190:International Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course deals with the basic managerial functions in an international enterprise. It explores the theoretical and practical aspects of managing international business operations, and deals with multi-cultural and global issues of managing the business expansion beyond the domestic market. It portrays the difficulties of managing enterprises that cross national borders and have to deal with cultural diversity, and diversity in socio-political and economic systems.

MGT 4199:Strategic Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BUSA 4150, ECON 3300, FIN 3100, MGT 3100, MGT 3200 and MKTG 3100 and Admission to the Coles College Undergraduate Professional Program. This course is taken in the last or next-to-last semester in the B.B.A. program.

This course emphasizes an integrative, multifunctional, general management perspective of the organization and its long-term survival in a global economic environment. It builds the knowledge base and analytical skills required for managing a business enterprise. Components include situation analysis, strategy formulation, evaluation, and choice, as well as strategy implementation at different organizational levels, and under different contextual conditions. The course enables the refinement of the student's communication and presentation skills, as well as the interpersonal abilities necessary for accomplishing group tasks. Integrating multiple business disciplines, it serves as the capstone course in the business curriculum.

MGT 4200:Family Business Consulting

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: MGT 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course explores both consulting practices and the challenges faced in family business. In addition to introducing the concepts and tools in both these areas, the course provides real-world insights via interaction with family business owners and professionals from local and regional consulting firms. The course includes on-site visits to family businesses where students apply what they have learned in class and analyze problems and develop plans to assist these companies.

MGT 4400:Directed Study

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 3.0, ([Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration
Special topics of an advanced nature not in the regular course offerings.

MGT 4476:Contemporary Global Business Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100, MGT 3600 and [Admission to the Coles College Undergraduate Professional Program or (60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course.)]

This course deals with current practices in Global Business. It examines the strategies and tactics adopted by Global Companies from both Developed as well as Emerging Markets. Students will obtain insights into how firms in today's global markets need to be skilled in handling virtual teaming, outsourced and offshored projects, and strategic alliances across national boundaries, in order to maintain competitive advantage.

Notes: MGT 4476 and MKTG 4476 cannot both be used.

MGT 4490:Special Topics in Management

1-3 Credit Hours

Prerequisite: 60 credit hours with a minimum GPA of 2.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Selected topics of interest to faculty and students.

MGT 4800:International Supply Chain Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course examines the key concepts of supply chain management, involving the flows of materials and information among all of the firms that contribute value to a product or service, from the source of raw materials to end customers. The course emphasizes the relationship between a firm and its supply chain partners: primarily the suppliers from whom it purchases its inputs and those who assist in the logistics and distribution of the products. The course has an international emphasis to reflect the trend of increasing partnerships with international suppliers, international transportation providers, and distributors in foreign markets. Supply chain management issues are addressed for both manufacturing and service organizations.

MGT 4850:Managing Process Improvement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course addresses leading-edge manufacturing theory and practice, including the just-in-time manufacturing philosophy, kanban production control systems, group technology, cellular manufacturing, the theory of constraints, the drum-buffer-rope production control system, and VAT analysis. This course extends knowledge beyond what is taught in traditional production and inventory management courses.

MGT 4860:Quality Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is an in-depth study of the key concepts and practices of modern quality philosophies and

techniques. The opportunities to add value through quality in all phases of business and product life cycles will be identified. Concepts and methods of statistical quality control will be presented.

MGT 4880:Service Operations Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3200, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The course will focus on developing a clear understanding of services from multiple perspectives. Students will define, diagnose, design, measure, control, and change services with the objective of improving quality and productivity. The course will address important service design issues, competitive issues unique to services, and the extensive interaction between marketing and operations in service organizations.

MGT/MKTG 4476:Contemporary Global Business Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 and MGT 3600 , 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course will deal with current practices in Global Business. It will examine the strategies and tactics adopted by Global Companies from both Developed as well as Emerging Markets. Students will obtain insights into how firms in today's global markets need to be skilled in handling virtual teaming, outsourced and offshored projects, and strategic alliances across national boundaries, in order to maintain competitive advantage.

Notes: MGT 4476 and MKTG 4476 cannot both be used.

Marketing

MKTG 3100:Principles of Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: [(Grades of "B" or higher in ACCT 2101, ACCT 2102, ECON 2105, and ECON 2106) or Admission to Coles College Undergraduate Professional Program] or [completion of 60 credit hours with a minimum GPA of 2.0 and student in a Coles College Partner Program that includes this course].

An introduction to the principles of marketing. This course examines the term, "marketing," in a broad sense to include all those activities of individuals or organizations which encourage and facilitate exchanges of values. This includes many activities such as research, physical distribution, product planning, pricing and promotional activities. The concepts are examined as they apply to marketing of goods and services in profit and nonprofit sectors in both domestic and global markets.

MKTG 3150:Consumer Behavior

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course examines the diverse influences of culture, society and psychological processes on consumer purchase patterns. Implications for marketing activities are also discussed.

MKTG 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: MKTG 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised, credit-earning work experience of one academic semester with an approved business firm, private agency or government agency. For junior or senior students who seek an on-the-job experience to apply their academic training. The work experience may not be with a current employer. A research paper is required to receive credit and the course will be graded on an S/U basis.

Notes: Co-op credit can be used only in the "Business Electives" area of the BBA.

MKTG 3398:Internship

1-9 Credit Hours

Prerequisite: MKTG 3100, Admission to the Coles College Undergraduate Professional Program and approval of the Career and Internship Advisor (KSU Career Planning and Development).

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency or government agency. A research paper is required to receive credit. For junior or senior students who wish to participate in an on-the-job experience in which they may apply their academic training. The work experience may not be with a current employer. The course will be graded on an S/U basis.

Notes: Internship credit can be used only in the "Business Electives" area of the BBA.

MKTG 3410:Professional Selling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course examines the role of personal selling in the firm's marketing strategy, model of communication and specific methods of selling. All students will be required to develop and deliver effective sales presentations.

MKTG 3800:Entertainment Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An introduction to the marketing practices of the entertainment industry. Industry terms, marketing strategies and tactics, recent developments and trends will be examined for major sectors of the entertainment industry including movie, music, television, theater, publishing, gaming, hospitality, and sports sectors. The course will also focus on product placement, celebrity source usage, product tie-ins, cross promotion, licensing, and other current marketing practices in the entertainment industry.

MKTG 4100:Marketing Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100 and ECON 2300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An examination of the marketing research process as an information providing activity supporting management decision-making. The course covers definition of the research problem, selecting and planning of a research design, measurement and scaling, questionnaire construction, and data analysis and interpretation. Students are required to use a statistical software package for data management and analysis.

MKTG 4300:Basic Retailing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is an introduction to retailing as a business institution. Retailing involves selling goods and services to the final consumer. Students describe and evaluate activities, procedures and decisions related to the operation of a retail unit.

MKTG 4350:Retail Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An examination of the practices and methods of retail distribution and merchandising as a rapidly changing part of the total marketing process, involving both large and small firms.

Notes: MKTG 4300 recommended but not required as a prerequisite

MKTG 4400:Directed Study

1-3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Special topics of an advanced nature not in the regular course offerings.

MKTG 4430:Market Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100 and ECON 2300, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course develops skills in locating, selecting and using appropriate information sources for making and using market measurements in the planning and management of marketing and sales operations. Students learn tools for estimating demand and forecasting industry and company sales and how to use these measures in selecting market targets, designing sales territories, assigning sales quotas and planning customer contract programs.

MKTG 4450:Sales Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3410, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of planning, organizing, staffing, directing and controlling of the sales force in developing an effective marketing organization.

MKTG 4460:Sales Technology and Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100

The course will focus on applying sales technology tools and sales analytics to sales and sales management processes in order to improve salesperson and sales manager performance. The course will introduce students to a variety of software applications, including those for CRM, Web Conferencing, Form Builders, Collaboration and Communication, Gamification, Presentation, and Analysis. In addition, the course will cover sales analytics, including how to use spreadsheets to generate key performance indicators and other analyses to improve salesperson performance.

MKTG 4476:Contemporary Global Business Practices

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MGT 3100 and MGT 3600, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course deals with current practices in Global Business. It examines the strategies and tactics adopted by Global Companies from both Developed as well as Emerging Markets. Students will obtain insights into how firms in today's global markets need to be skilled in handling virtual teaming, outsourced and offshored projects, and strategic alliances across national boundaries, in order to maintain competitive advantage.

Notes: MKTG 4476 and MGT 4476 may not both be taken.

MKTG 4490:Special Topics in Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 3.0, (Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course), and approval of instructor and Department Chair prior to registration. Selected special topics of interest to faculty and students.

MKTG 4500:Internet Marketing and Global Business

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The course focuses on how information technology has created the framework for the emergence of commerce on the Internet. Students will be exposed to the ways that firms are utilizing the Internet to reconstruct their value chains and create/sustain competitive advantage. The impact of this medium on key dimensions of global business operations such as purchasing, manufacturing and marketing will also be addressed.

MKTG 4520:Social Media Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Social Media Marketing explores the many realms of social media and includes case studies, discussions, interactive exercises as well as articles from the current literature. The course examines the changing role of social media in the promotional marketing mix, the role of the consumer in social media, online communities and how social media is impacting both marketing and consumer lifestyles, how to measure the ROI of social media, and the metrics of social media.

MKTG 4570:Advanced Social Media Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, and MKTG 4520

This course is an in-depth exploration of inbound marketing, advanced social media, and paid digital

tactics and strategies. This class includes basic website construction, paid social media, search engine optimization tactics, social media analytics, and paid search.

MKTG 4620:Services Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An examination of the unique characteristics of service organizations and the increasingly vital role they play in the U. S. economy. By focusing upon the marketing of such diverse services as hotels, hospitals, banking and recreation, the course stresses the importance of tailoring marketing strategies to fit the special needs of service marketers, needs quite different from those of manufacturing organizations.

MKTG 4630:Direct Response Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of the promotional methods that request immediate action or response. Topics include: planning, creating and evaluating of direct response advertising campaigns, introduction to direct mail marketing techniques including lists, catalogs, testing and merchandise selection and the media of direct marketing.

MKTG 4650:Advertising

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of the various elements of advertising. This course emphasizes the strategic applications of advertising and promotion from the perspective of the marketing manager.

MKTG 4666:Marketing for Entrepreneurs

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MKTG 3100 and MGT 3100), 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

This course is an introduction to the marketing practices that focus on the needs of entrepreneurs. Industry terms, recent developments, trends, and social networking, and entrepreneur-focused marketing strategies and sales tactics, will be examined. Requirements for development of an integrated marketing communications plan for supporting an entrepreneur are stressed.

MKTG 4670:Promotional Strategy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 4650, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of the various component parts of the promotional mix. Focuses on the development and management of personal selling, public relations, publicity and advertising in implementing marketing strategy.

MKTG 4750:Advanced Selling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MKTG 3100 and MKTG 3410, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

An in-depth examination of current business trends as they impact the professional salesperson. Particular emphasis is placed on negotiating skills and customer relationship management (CRM), as well as general sales related topics including sales automation and time/territory management. Students will be required to spend time in the field with professional salespeople and to prepare and deliver effective informational and persuasive sales presentations.

MKTG 4820:International Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of the application of the marketing concept in international markets. The course examines how the differences in international environments induced by economic, cultural, legal and other influences necessitate the adaptation of the marketing mix to satisfy consumers. Alternative international market entry strategies, such as exporting and licensing, are discussed.

MKTG 4850:Business to Business Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

A study of special problems and requirements of marketing products to organizational buyers. The course examines organizational buyer behavior, business-to-business promotion, business-to-business sales and the development of industrial products.

MKTG 4870:Sports Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Sport event marketing is one of the fastest growing career fields in America. The term, "sports marketing" includes the administration, coordination, and evaluation of any type of event related to sport. Examples are from local school and community sport events, not-for-profit and corporate events, intercollegiate sport programs, and amateur and professional league activities such as the Olympic Games and the Super Bowl. The Sports Marketing class is designed to provide the student an opportunity to experience an actual sports event project. The project will be selected by the class, after which a strategic plan will be developed and carried out. This class will be interactive and require the student's complete participation to be successful.

MKTG 4880:Hospitality and Tourism Marketing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The hospitality and tourism market is considered to be the world's largest and most international in nature. The philosophical foundation and structure for the hospitality and tourism industry are based on marketing concepts. This course assimilates all of the marketing theories, concepts, activities and requirements necessary to succeed in global Hospitality and Tourism commerce.

MKTG 4990:Marketing Strategy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MKTG 3100, MKTG 3150 and MKTG 4100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

The Marketing Strategy course at Kennesaw State University is the "capstone" marketing course that teaches how to integrate all of the different marketing elements, learned in the other marketing courses, into a unified marketing strategy. It teaches all the steps involved in creating a marketing strategy from the analysis of the situation, selection of a sustainable competitive advantage, identification of a target market, and managing of the marketing mix (product, price, place, and promotion).

Mathematics

MATH 0989:Foundations for College Algebra (MATH 1111)

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course prepares students for entry into MATH 1111 College Algebra or MATH 1101

Mathematical Modeling. This course provides a detailed review of the fundamental and essential mathematical concepts required for success in those courses.

MATH 0997:Support for Quantitative Reasoning

3 Class Hours 0 Laboratory Hours 1 Credit Hours

Corequisite: MATH 1001

This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1001 - Quantitative Reasoning. Topics will parallel topics being studied in MATH 1001 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1001. Taken with MATH 1001, topics to be covered will include logic, basic probability, data analysis and modeling from data.

MATH 0998:Support for Mathematical Modeling (MATH 1101)

3 Class Hours 0 Laboratory Hours 1 Credit Hours

Corequisite: MATH 1101

This course provides corequisite skills and additional instruction for topics and concepts covered in MATH 1101 Mathematical Modeling.

MATH 0999:Support for College Algebra (MATH 1111)

3 Class Hours 0 Laboratory Hours 1 Credit Hours

Corequisite: MATH 1111

This course provides corequisite skills and additional instruction for topics and concepts covered in MATH 1111 College Algebra.

MATH 1001:Quantitative Reasoning

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course emphasizes quantitative reasoning skills needed for informed citizens to understand the world around them. Topics include logic, basic probability, data analysis and modeling from data.

MATH 1101:Introduction to Mathematical Modeling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results.

MATH 1111:College Algebra

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving

problems involving linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions.

MATH 1113:Precalculus

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1111 or By Placement

This course is an intensive study of the basic functions needed for the study of calculus. Topics include algebraic, functional, and graphical techniques for solving problems with algebraic, exponential, logarithmic, and trigonometric functions and their inverses.

MATH 1160:Elementary Applied Calculus

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1111, MATH 1113 or by Placement

Uses techniques of college algebra and elementary calculus to analyze and model real world phenomena. The emphasis will be on applications using an intuitive approach to the mathematics rather than formal development. Topics include graphs, derivatives, and integrals of functions. The course incorporates collaborative learning, oral and written reports, and technology.

Notes: This course is not intended for majors within the College of Science and Mathematics or the Southern Polytechnic College of Engineering.

MATH 1190:Calculus I

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1113, or By Placement

This course is the first in the calculus curriculum and introduces the central concepts of calculus. Topics include limits, continuity, derivatives of algebraic and transcendental functions of one variable, applications of these concepts and a brief introduction to the integral of a function.

MATH 2008:Foundations of Numbers and Operations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: The completion of Areas A2 and D1 courses with a C or higher, and one of the following majors: ECE, ECE (Interest), Early Childhood Birth to Kindergarten Traditional, Early Childhood Birth to Kindergarten Traditional (Interest).

This course is an Area F introductory mathematics course for early childhood education majors. The course emphasizes the understanding and use of the major concepts of number and operations. As a general theme, strategies of problem solving are used and discussed in the context of various topics.

MATH 2202:Calculus II

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1190

This course is the second in the calculus curriculum and consists of two parts. The first part is

concerned with the techniques of integration and applications of the integral. The second part is concerned with infinite sequences and series.

MATH 2203:Calculus III

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: A grade of "C" or better in MATH 2202

This course is the third in the calculus curriculum and is concerned with functions defined on regions in two or three dimensional space and that have values in one, two, or three dimensional space. Topics include partial derivatives, vector fields, multiple integrals, and applications of these topics.

MATH 2306:Ordinary Differential Equations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 2202

An introduction to the theory of ordinary differential equations (ODEs), methods of solving first and higher order linear differential equations and linear systems, some applications in the sciences and engineering, the Laplace transform and its application in solving differential equations and linear systems, stability analysis and Euler's numerical algorithm.

MATH 2335:Numerical Methods for Engineers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of 'C' or higher in MATH 2202, and ((CSE 1321 and CSE 1321L), or ECET 3810 or ECET 3710 or ME 1311)

This course is an introduction to numerical approximation techniques in the solution of problems encountered in engineering and science. Topics include Taylor polynomials, iterative methods for root finding, interpolation, numerical quadrature and differentiation. Error analysis, effective application, and limitations of methods are emphasized. Notes: Not intended for mathematics or mathematics education majors.

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MATH 2345:Discrete Mathematics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1113 or MATH 1190

An introduction to the fundamentals of discrete mathematics. Topics include sets, formal logic, methods of proof, counting relations, functions, graphs and trees, and finite state automata.

Notes: Not intended for mathematics or mathematics education majors.

MATH 2390:Introduction to Logic, Set Theory, and Proofs

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202

This course introduces to students the foundations of logic, set theory, and basic proof techniques. The course serves as a bridge from the procedural and computational understanding of mathematics to a broad understanding encompassing logical reasoning, generalization, abstraction, axiomatic approach, and formal proof.

MATH 3000:Software of Mathematics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or better in MATH 2202 and (CSE 1321 and CSE 1321L)

This course is designed to introduce students to numerical/symbolic computation using specialized mathematical software packages. The professional software to be taught may be MATLAB, MAPLE, Scientific Notebook or their equivalent. At the end of the course, students will be able to solve complex mathematical problems with the use of software and to write and present scientific or mathematical work professionally.

MATH 3204:Calculus IV

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203

This course is the fourth in the calculus curriculum and is concerned with the change of variables for integrals on two and three dimensional regions, line integrals, surface integrals, Green's theorem, and Stokes theorem. The analogue of Stokes' theorem (the theorem of Gauss) for integrals of functions on three-dimensional parametric regions will also be studied.

MATH 3260:Linear Algebra I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1190

An introduction to linear algebra and some of its classical and modern applications. Among topics to be included will be systems of linear equations, matrices, determinants of matrices and applications, vector spaces, and inner product spaces. Significant use of technology will be employed in performing matrix computations.

MATH 3261:Numerical Methods I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 3260 and (CSE 1321 and CSE 1321L)

This course provides an introduction to the fundamental numerical methods to solve nonlinear equations, systems of linear equations, and interpolation and approximation. Extensive use of computing will be incorporated.

Notes: Extensive computer use will be incorporated

MATH 3262:Mathematical Modeling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2306

This course is designed to introduce students to fundamental concepts and methods of mathematical modeling, through a project-oriented approach. This course will involve applications of mathematical techniques to solve problems in areas such as ecology, biology, finance, social sciences, life sciences, physical sciences and engineering. The emphasis will be on the building of mathematical models and on interpreting the solutions of these models in terms of real-life applications. The course will emphasize skills in constructing and analyzing models.

MATH 3272:Introduction to Linear Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 3260

The simplex method, dual simplex method, dual-primal two phase method, and several interior-point methods for linear programming problems will be introduced.

Notes: Selected applications will be discussed.

MATH 3318:Algebra for Elementary Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MAED 3317 and admission to the Teacher Education program.

A continuation of Mathematics 3317 designed for preparing the P-5 teacher. Topics will emphasize understanding and use of the major concepts and techniques of algebra for grades P-5, including expressing, transforming, and generalizing patterns and quantitative relationships through a variety of representations, including tables, graphs, algebraic symbols, verbal descriptions, manipulatives, and geometric figures. Solving problems using multiple strategies, manipulatives, and technological tools will also be a focus.

Notes: Not for mathematics or mathematics education majors.

MATH 3322:Graph Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2345 or MATH 2390

This course serves as an introduction to the basic principles of graph theory. Topics include but are not limited to graph representations, isomorphisms, paths, cycles, colorings, trees, matchings, planarity, graph algorithms, and optimization.

MATH 3323:Computer Applications of Discrete Modeling

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: MATH 3322 and CS 3305

This course will give students the opportunity to apply the theoretical work of Discrete Modeling I to concrete problems. The computer will be used to support working with large examples. Examples will cover combinatorics, discrete functions, and graph theory.

MATH 3324:Enumerative Combinatorics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2345 or MATH 2390

This course is an introduction to classical combinatorics and the theory of counting. Topics include the twelvefold way, combinatorial proof, the principle of inclusion/exclusion, and generating functions.

MATH 3332:Probability Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203

This course is an introduction to probability theory. Topics include counting techniques, discrete and continuous univariate and multivariate random variables, expectation, moment generating functions, and the Central Limit Theorem.

Notes: The MINITAB statistical software package is used.

MATH 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education/internship.

A supervised work experience program for a minimum of two academic semesters at a site in business, industry or government. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

MATH 3398:Internship

1-9 Credit Hours

Prerequisite: Approval of major area committee and department chair.

This course is a supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency, or government agency.

MATH 3405:Probabilistic Foundations of Actuarial Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203 and MATH 3332

This course serves as a preparation for Exam P of the Society of Actuaries. Emphasis is on joint continuous distributions, moment generating function, transformations and probability tools to assess risk.

MATH 3496:Elementary Number Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2390

The course is an introduction to the basic principles of number theory. Topics include properties of integers, congruences, divisibility, the Euclidean algorithm, prime number theorems, multiplicative functions, Diophantine equations, and applications in cryptology.

MATH 3696:College Geometry

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of C or better in MATH 2202

This is a rigorous development of geometry that starts with a close reading of Book I of Euclid's Elements, moves on to geometry developed during the Arabic period and the Renaissance, then to non-euclidean geometries discovered during the 19th century. The course includes a treatment of Hilbert's approach to Euclidean geometry and a brief treatment of real projective geometry. Students taking this course should have a serious interest in abstract mathematics.

MATH 4260:Linear Algebra II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 3260

Topics in this course include real vector spaces and their subspaces; inner product spaces, orthogonal subspaces, Gram - Schmidt process; best approximation; eigenvalues and eigenvectors; special matrices; matrices of general transformations, and various applications including matrix functions.

MATH 4310:Partial Differential Equations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203 and MATH 2306

This course is an introduction to partial differential equations (PDEs), their applications in the sciences and the techniques that have proved useful in analyzing them. The techniques include separation of variables, Fourier series and Fourier transforms, orthogonal functions and eigenfunction expansions, Bessel functions, and Legendre polynomials. The student will see how the sciences motivate the formulation of partial differential equations as well as the formulation of boundary conditions and initial conditions. Parabolic, hyperbolic, and elliptic PDEs will be studied.

MATH 4345:Numerical Methods II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2306 and (CSE 1321 and CSE 1321L)

This course provides an introduction to numerical differentiation and integration, numerical methods for linear integral equations, initial and boundary value problems for ordinary differential equations, eigenvalues and eigenvectors, and partial differential equations. Notes: Extensive use of computing will be incorporated.

Notes: Extensive use of computing will be incorporated.

MATH 4361:Modern Algebra I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2390 and MATH 3260

An introduction to the fundamental structures of abstract algebra (groups, rings, and fields), the connections of these structures with the algebra studied at the elementary level, and the historical development of modern algebra. The emphasis in this course is on groups.

MATH 4362:Modern Algebra II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 4361

A continuation of Modern Algebra I with an emphasis on rings and fields.

MATH 4381:Real Analysis I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2390

This course provides a rigorous introduction to the calculus of a single real variable and a deeper awareness of the theory of calculus than can be achieved in the elementary calculus courses. Among the topics covered in the course are completeness of the number system, elementary topology of the real line, limits of sequences, and limits and continuity of functions. The aim of this course is two-fold, to provide an understanding of the nature of the real number system and its role in the theory of calculus, and to provide a training in the discovery and writing of rigorous mathematical proofs.

MATH 4382:Real Analysis II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 4381

This course is a continuation of the study of functions of a real variable (Real Analysis I). Topics include the Riemann/Darboux integral, differentiability, sequences and series of functions. The aim of the course is to provide the students with a deeper understanding of the notions of sequences/series, integrability, and differentiability of functions of a real variable, as well as their properties and interconnections. While developing these concepts, we will focus on understanding and writing formal proofs, as well as emphasize their applications.

MATH 4391:Complex Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2203

This course is an introduction to the basic concepts of complex analysis, its beautiful theory and powerful applications. Topics covered will include: the algebra and geometry of the complex plane, properties of elementary functions of a complex variable, analytic and harmonic functions, conformal

mappings, continuity, differentiation, integration (Cauchy integral theory), singularities, Taylor and Laurent series, residues and, time permitting, their applications.

MATH 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and department chair.
Special advanced topics external to regular course offerings.

MATH 4490:Special Topics in Mathematics

1-6 Credit Hours

Prerequisite: Approval of the instructor and department chair.
This course is comprised of special selected topics of interest to faculty and students.

MATH 4596:Topology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2390

This course is an introduction to the study of topology. Topics include topological spaces, subspaces, basis, continuity, separation and countability axioms, connectedness, and compactness.

MATH 4699:Undergraduate Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor.

The student conducts original research in mathematics under the supervision of a faculty member. This research is the result of sustained effort on a problem in mathematics, either theoretical or applied. Making an original contribution to the field of mathematics is the focus of the course rather than a survey of existing work. Results are disseminated by on campus presentations, conference presentations and/or peer-reviewed journal publications.

Mathematics Education

MAED 1190:Calculus for Middle Grades Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: The successful completion of two 1000 or 2000 level MATH or STAT courses.

This course is a study of real numbers, functions, and calculus with the dual objectives of developing understanding of these topics and the pedagogy of teaching mathematics in contemporary middle schools. Concepts and definitions, proofs, precision and rigor of language, accurate representations and connections within/between mathematics and other subjects as applied to pedagogy and teaching in the middle school will be emphasized. This course does not count as credit for Secondary Education or Mathematics Majors.

MAED 2390:Introduction to Mathematical Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: The successful completion of two 1000 or 2000 level MATH or STAT courses.

This course is specifically designed to introduce students to the study of mathematics from a mathematical systems approach. A mathematical system consisting of undefined terms, axioms and theorems will be studied. The major emphasis of this class will be on the development of skills in communicating and justifying mathematical ideas and conclusions. Mathematical systems studied will vary according to the instructor and may be chosen from sets, number systems and/or geometry.

MAED 3295:Mathematics for Middle Grades and Secondary Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 or MAED 1190

This course is designed for the preservice teacher of mathematics for adolescents. Content strands to be explored include number and operation, algebra, and measurement. The process standards of communication, connections, problem solving, reasoning and proof, and representation will be emphasized. Appropriate use of manipulatives, calculators, and software will be integrated in course materials.

MAED 3316:Rational Numbers and Proportional Reasoning for Elementary Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2008

A continuation of Mathematics 2008 designed for the P-5 teacher. Topics include the conceptual development of the rational numbers and extension to the real numbers, operations and problem solving with real numbers, patterns and relationships, and proportional reasoning. Experience and exploration with appropriate technology and physical models will be an integral part of the study of these ideas.

Notes: Not for mathematics or mathematics education majors.

MAED 3317:Geometry and Measurement for Elementary Teachers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 3316 and admission to the Teacher Education program.

This course is designed for the P-5 teacher as a continuation of MAED 3316. Topics will emphasize the critical content and conceptual development of measurement; transformational geometry; symmetry in the plane; and constructions. Geometric concepts will be explored and developed using physical models, visual models and educational software.

Notes: Not for mathematics or mathematics education majors.

MAED 3395:Geometric Proofs and Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2390 or MAED 2390

This course is designed to prepare prospective 5-8 teachers and 6-12 teachers to become effective facilitators in teaching geometry. This course develops geometry as an axiomatic mathematical system and approaches it from synthetic, transformational, and algebraic perspectives (including higher dimensions). Various geometries are studied including finite, infinite, projective, Euclidean and Non-Euclidean.

MAED 3475:Historical and Modern Approaches to Mathematics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to the Teacher Education program.

Students will investigate classical and modern mathematics through problem-solving and mathematics-specific technologies. Students will have opportunities to connect course content with the middle and secondary school curriculum.

MAED 3495:Advanced Perspectives on School Mathematics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 3295 and (MATH 2390 or MAED 2390)

Students' understanding of the mathematics taught in middle school and the first few years of high school will be deepened and broadened through the study of key topics including algebra, linear functions, exponential functions, quadratic functions, number theory, discrete mathematics, and mathematical modeling. This course is designed so that students can revisit key ideas in school mathematics, bringing with them the skills and understandings of college course work in mathematics, deepening and broadening their understanding, and connecting more advanced ideas to the topics they will teach in middle school and high school.

MAED 4000:Service Learning in Mathematics Education

1-3 Credit Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

MAED 4400:Directed Study in Mathematics Education

1-5 Credit Hours

Prerequisite: Approval of the instructor and department chair.

A concentrated investigation of a particular aspect of a topic within mathematics education. The content of the directed study will be determined jointly by the instructor and the student.

MAED 4414:Methods of Teaching Secondary Mathematics I

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: EDUC 2130 **Corequisite:** EDSM 4414

This is the first of three courses in a professional sequence toward becoming a well-prepared beginning secondary mathematics teacher. Topics include introductory ideas about mathematics education, including current mathematics standards and policy documents, cognitive learning theories, and teaching frameworks. Students will explore how secondary students think about and learn mathematics, examine how to select and modify tasks, use appropriate manipulatives and technology, differentiate instruction, and apply their learning in an accompanying field experience.

MAED 4415:Teaching of Mathematics I (6 - 12)

3 Class Hours 1 Laboratory Hours 4 Credit Hours

Prerequisite: EDUC 2110 and EDUC 2120 and Preservice Certificate **Corequisite:** MAED 3495

This course consists of examination and application of curricular issues, learning theories, teaching strategies, instructional materials, and assessment procedures for teaching secondary school mathematics in the multicultural classrooms of today. The course includes field experience observations in secondary mathematics teaching. Emphasis is on those practices suggested by research in mathematics education and encouraged by the NCTM and the MAA. Proof of professional liability insurance and a clear background check or preservice certificate is required prior to receiving a school placement.

MAED 4416:Methods of Teaching Secondary Mathematics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 4414 **Corequisite:** EDSM 4416 and EDSM 3360

This is the second of three courses in a professional sequence toward becoming a well-prepared beginning secondary mathematics teacher. Topics include social learning theories, equity issues, and specific teaching strategies. Students will explore how to support discourse in the secondary mathematics classroom, develop questioning techniques, examine how to plan for learning sequences, and apply their learning in an accompanying field experience.

MAED 4417:Teaching of Mathematics (6-12) Practicum

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: Admission to MAED 4416

Secondary school field experience in mathematics teaching with concurrent seminars. Proof of professional liability insurance is required prior to school placement. Repeatable.

MAED 4475:Student Teaching: Mathematics (6-12)

12 Credit Hours

Prerequisite: Admission to Student Teaching.

Full-time teaching experience in mathematics under the supervision of a public school cooperating

teacher and a specialist in mathematics education. Includes a regularly scheduled seminar. Proof of professional liability insurance is required prior to placement in a school.

MAED 4490:Special Topics in Mathematics Education

1-6 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of interest to faculty and students.

MAED 4495:Advanced Perspectives on School Mathematics Part II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 3495

Students understanding of secondary mathematics will be deepened and broadened through the study of algebraic structures, analytic geometry, and trigonometry, including conic sections, complex numbers, polynomials and functions. This course is designed so that students can revisit key ideas in high school mathematics, bringing with them the skills and understandings of college course work in mathematics, deepening and broadening their understanding, and connecting more advanced ideas to the topics they will teach in high school.

MAED 4498:Internship in Teaching Mathematics (6-12)

12 Credit Hours

Prerequisite: Provisional teaching license issued by the state of Georgia; full-time employment teaching mathematics.

Student Teaching experience in mathematics for provisionally certified teachers. Supervision will be in collaboration with a mentor or teacher in the local school and a specialist in mathematics education.

Notes: Successful completion of one semester of MAED 4495 at the same school will substitute for MAED 4475. Proof of professional liability insurance is required. Student must be employed in a secondary school to qualify. Repeatable.

MAED 4650:Yearlong Clinical Experience I

0 Class Hours 12 Laboratory Hours 3 Credit Hours

Prerequisite: MAED 4416, Pre-service certification and Admission to Yearlong Clinical Experience

Corequisite: EDSM 4418, INED 3305, INED 4435, and EDUC 4610

This course is the first semester of an intensive and extensive co-teaching yearlong clinical practice in mathematics education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars. Proof of liability insurance is required as well as a background check.

MAED 4660:Yearlong Clinical Experience II

0 Class Hours 36 Laboratory Hours 9 Credit Hours

Prerequisite: MAED 4650 and eligibility to take GACE **Corequisite:** INED 3306 and INED 4436

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in mathematics education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This experience includes regularly scheduled professional seminars and the completion of a content pedagogy assessment.

Notes: Proof of liability insurance is required as well as a background check.

Mechanical Engineering

ME 1001:Introduction to Mechanical Engineering

2 Class Hours 0 Laboratory Hours 2 Credit Hours

This course is an introduction to Engineering, with a focus on Mechanical Engineering. A strong emphasis will be placed on techniques for undergraduate student success, and preparation for careers in engineering and/or graduate studies. Students will be introduced to engineering faculty and student organizations. Kennesaw State University and Mechanical Engineering Program policies and curricula will be discussed.

ME 1311:MATLAB for Engineers with Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 **Concurrent:**

ME 1001

This course will provide an introduction to fundamental computing principles and programming concepts. Students will use the high-level programming language, MATLAB to develop and implement programs to solve engineering problems. Basic programming concepts covered include: algorithm design, data types, flow control, functions, sorting, plotting, simulation, and numerical methods.

ME 2290:Special Topics in Mechanical Engineering

1-4 Credit Hours

This course covers special topics at the intermediate level that are not in the regular course offerings. This course may be taken more than once.

ME 3101:Materials Science and Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1211 and PHYS 2211

A study of metals, ceramics, polymers, and composites as related to material selection for design and

manufacturing. Areas include atomic structure and bonding, crystal structure and defects, mechanical properties and failure, diffusion, dislocation and strengthening, alloying, phase diagrams and transformations/heat treatment, polymers, ceramics and glasses, and composites.

ME 3133:Composite Mechanics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3131

To provide a broad introduction to the technology and mechanics of advanced composites (polymer, metal and ceramic matrix), with a particular emphasis on mechanical design using fiber reinforced composites. Micromechanics of composites, as well as effective properties such as lamination theory will be introduced. Design considerations, applications and composite fabrication will also be introduced.

ME 3201:Product Realization

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: ENGR 2214 and EDG 1211 and Engineering Standing

This course will introduce students to a rigorous design process. From needs assessment to implementation, an emphasis will be placed on the need for a formal process. Case studies will be used extensively, as well as a real-world ME design project.

ME 3398:Internship

1-4 Class Hours 0 Laboratory Hours 1-4 Credit Hours

Prerequisite: 90 credit hours and permission of the instructor

A structured out of the classroom experience in a supervised setting that is related to the student's major and career interests. Practical experience is combined with scholarly research under the guidance of faculty and the internship supervisor. Internship sites must be secured in advance of the semester of the placement and must be approved by the student's advisor and internship coordinator. Note: Students may enroll multiple times in this course for a total of four credit hours.

ME 3410:Thermodynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 and Engineering Standing

Fundamentals of Thermodynamics including the concept of energy and the laws governing the transfers and transformations of energy. Emphasis on thermodynamic properties and the first and second law analysis of systems and control volumes. Integration of these concepts into the analysis of basic power cycles is introduced.

ME 3440:Heat Transfer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3410 and ENGR 3343 and Engineering Standing

Fundamentals and applications of heat transfer including conduction, convection and radiation.

Steady state and transient conduction in one and multi dimensions. Forced and free convection with boundary layer theory. Radiation properties and radiative heat transfer among black and non-black bodies. Calculation of heat transfer rates, heating/cooling times and design of heat exchangers.

ME 3501:Dynamic Systems & Control Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3125, MATH 2306 and Engineering Standing

Introduction to a unified approach to lumped-element modeling and analysis of mechanical, electrical, hydraulic, and multi-energy domain systems. Topics include: graphical and computer modeling; formulation of state-space equations; analysis of linear systems; determination of time and frequency domain response of such systems to transient and periodic inputs; block diagram representation of dynamic systems using Laplace Transform. Feedback control systems, including PID control, root locus, stability analysis, and computer modeling.

ME 3701:Manufacturing Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3131, ME 3101, and Engineering Standing

This course introduces the fundamentals and applications of major manufacturing processes and engineering along with their capabilities, analyses, selection and economics. It establishes the technical knowledge for processes such as casting, deformation, material removal and polymer processes. Modern rapid prototyping processes such as 3D printing are also covered.

ME 3705:Internal Combustion Engines

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3440 and Engineering Standing

This course will provide an introduction to internal combustion engines from Thermodynamics and Heat Transfer viewpoints. Students will learn the classification of internal combustion engines, engine performance parameters, gas power cycles on which the engines work on will be discussed. Various engine components and their functions will be introduced. Engine performance calculation will be taught in detail followed by the discussion on the formation of exhaust emission and various control methods to meet the emission norms.

ME 4141:Machine Design I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3131 and Engineering Standing

The fundamentals of mechanical engineering design to analyze, design and /or select components which are commonly used in the design of complete mechanical systems for structural integrity, reliability, and cost considerations are detailed. The course focuses on static loading and fatigue failure of mechanical elements, including shafts and rolling-element bearings, bolted and permanent connections, springs, brakes, cylinders, gears and flexible elements.

ME 4201:Senior Design I

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: ME 3201, ME 3440, ME 4250 and Engineering Standing

Part 1 of a two-course senior design capstone project for mechanical engineering. Students will form teams, define design projects, and write a proposal. Students will also begin preparation for FE Exam.

ME 4202:Senior Design II

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ME 4201, and ME 4141, and Engineering Standing

Part 2 of a two-course senior design capstone project for mechanical engineering. Synthesis and analysis of an open-ended mechanical engineering design project, including written and oral communication. Students will also be prepared to take the FE exam.

ME 4250:Computer Aided Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDG 1211, ENGR 3343, ENGR 3131 and Engineering Standing

This course introduces engineering software tools and techniques for computer modeling and simulation of mechanical components, products and systems. It introduces students to techniques common to various industries including biomedical, aviation, automobile, HVAC, etc. such as meshing and computer simulations based on finite element and computational fluid dynamics (finite volume) analyses.

ME 4260:Plastic Product and Mold Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3101, ENGR 3131, and ENGR 3343

A study of the various complexities involved in design of plastic parts, and design of the dies and molds required for manufacturing of plastic parts. The course teaches design of plastic parts taking into account non-linear and time-dependent mechanical behavior of plastics, general guidelines for design of plastic parts, design of dies for polymer extrusion and design of molds for injection molding of plastic parts.

ME 4301:Renewable Energy for Mechanical Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Engineering Standing **Concurrent:**

ME 3440

This course provides physical and technological principles behind power generation using renewable energy sources including direct solar (solar thermal and photovoltaics), indirect solar (biomass, hydro, wind, and wave) and non-solar (tidal and geothermal). It examines their environmental impacts, economics, and prospects for a sustainable future. Design and performance aspects of renewable energy systems are also covered.

ME 4303:Failure Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3101 and ENGR 3131

This course focuses on understanding the mechanisms responsible for failure of engineering materials and design for failure prevention. Topics may include procedures for conducting failure analyses, linear elastic fracture mechanics, elastic-plastic fracture mechanics, fatigue, corrosion and environmental factors, failure of metals, ceramics, polymers and composites. The course will involve examination of numerous case studies that involve the use of principles of metallurgy and failure analysis in a wide variety of real-world applications.

ME 4307:Design for X

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ME 3201 and Engineering Standing

This course covers a set of topics that are important while designing a product for a successful life cycle. This involves an established range of topics, guidelines and standards, that should be followed during the design process. In Design for X or DFX, the 'X' is interchangeable with one of many topics depending on the particular objectives of the design. These DFX guidelines make a product functional, economical, and environmentally friendly. Particular focus in this course will be on manufacturability, assembly, quality, standards, environment, and Life Cycle Assessment.

ME 4400:Directed Study

1-4 Credit Hours

Prerequisite: Approval of instructor and department chair

This course covers special topics and seminars of an advanced nature, external to regular course offerings that allow a student to work individually with an instructor. A Directed Study may include original research projects and/or practicum experiences.

ME 4403:Heat Transfer and Thermodynamics Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ME 3440 and Engineering Standing

This is a laboratory course designed to complement the thermodynamics and heat transfer lecture courses. The lab experiments are set up to provide practical experience in thermal sciences area including heat transfer modes, thermodynamics power and refrigeration cycles. Emphasis will also be placed on thermal measurements, data interpretation and report writing.

ME 4490:Special Topics in Mechanical Engineering

1-4 Credit Hours

Prerequisite: Engineering Standing and approval of the instructor and department chair. Non-Engineering majors: Permission of instructor and the department chair.

This course covers advanced level special topics of interest to faculty and students that are not in the regular course offerings. This course may be taken more than once.

ME 4501:Vibrations & Controls Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ENGR 3125 and ME 3501 (can be taken concurrently) and Engineering Standing

This is a laboratory course designed to complement the vibrations and controls topics also covered in lecture courses. Experimental study of one, two, and more degrees of freedom vibration, including effects of damping, free and forced vibrations, translational and torsional vibrations. Implementation of proportional, integral, and/or derivative control of dynamic systems.

ME 4520:Acoustics & Noise Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 3125, MATH 2306, and Engineering Standing

This course provides an introduction to acoustics with an emphasis on the engineering application of noise control. Students will learn the acoustic wave equation and apply it to spherical and plan wave sources; such as the reflection, absorption, and transmission of sound waves through barriers, as well as reverberation and HVAC noise standards within indoor spaces. Applications of acoustics to noise control are evaluated.

Mechanical Engineering Technology

MET 1000:Mechanical Engineering Technology Orientation

1 Class Hours 0 Laboratory Hours 1 Credit Hours

An introduction to career opportunities in the Mechanical Engineering Technologies; familiarization with college and departmental policies, curriculum, and facilities.

MET 1311:Manufacturing Processes

3 Class Hours 0 Laboratory Hours 3 Credit Hours

An introduction to industrial manufacturing processes used for converting raw materials into finished products. Various processes, machinery, and operations will be examined with emphasis placed on understanding engineering materials and processing parameters that influence design considerations, product quality, and production costs.

MET 1321:Machining and Welding

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: MET 1311 (or concurrently)

An introduction to the use and operation of selected industrial machinery, various machining operations, selected welding processes and precision measuring instruments. Laboratory projects will emphasize safety and apply selected manufacturing processes, various inspection processes, fixturing and engineering materials.

MET 1400:Welding & Fabrication for Engineers

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Concurrent:

MET 1311

This course is an introduction to the use and operation of selected welding and fabrication processes. Weld joints and weld types are discussed as they relate to weld design. Weld evaluation and testing methods are covered. Laboratory projects will emphasize safety and apply selected welding processes, various inspection processes, fixturing and engineering materials.

MET 1800:CNC and Machining

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: MET 1311 and EDG 1211

This course is an introduction to the use and operation of selected industrial machinery, machining operations, CNC, and precision measuring instruments. Laboratory projects will emphasize safety, tooling identification, workholding setup, CNC operation, and engineering materials.

MET 2124:Statics with Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 and (PHYS 1111 and PHYS 1111L) or (PHYS 2211 and PHYS 2211L)
2D and 3D forces and moments acting on components, machine parts, frames, and structures are analyzed. Static rigid body force systems in equilibrium, including friction applications are included. Distributed load calculations using centroids and centers of gravity located by composite and CAD methods are practiced. An introduction to calculating the moments of inertia of machines and structures is also included. Real 2D and 3D design applications are emphasized. Assumptions considering safety, economics, quality and function are discussed. Not equivalent to ENGR 2214,

MET 2290:Special Topics for MET

1-3 Credit Hours

Prerequisite: Consent of the Department Chair

Special topics selected by the program. Offered on a demand basis.

MET 2301:Metrology and Geometric Dimensioning & Tolerancing

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: EDG 1212, MET 1000, and MET 1400, or the consent of the instructor.

Principles of metrology and the relationship of accurate measurement to design practice and production processes are studied. The principles and applications of geometric dimensioning and tolerancing (GD&T) are thoroughly covered. The use of standards, nondestructive testing (NDT), statistics, and utilization and calibration of various precision measurement instruments are addressed. The laboratory illustrates repeatability, reproducibility, and applications of precision measurement devices and nondestructive testing methods.

MET 2322:Metrology and CNC Machining

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: EDG 1211

This course is an introduction to the use and operation of selected Computerized Numerical Control (CNC) machine tools and to Geometric Dimensioning And Tolerancing (GD&T). Laboratory projects will apply selected manufacturing processes, GD&T and CNC programming logic. Emphasis is placed on the following: safety, operational planning, design considerations, bonus tolerance, virtual condition, work holding requirements and manufacturing problems associated with engineering materials.

MET 2501:Engineering Computation using Matlab

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1111 or MATH 1113

This course provides an introduction to computation in the context of engineering problem solving. In this course, the fundamental tenets of computer programming will be placed into the context of MATLAB, a user-friendly language for engineers. It employs hands on exercises, examples from the world of engineering, and a variety core tools to increase general proficiency and capability in the computer programming, preparing students to fluidly adapt learned programming concepts to other languages. After teaching the linear, algebra, an introduction to computer programming with MATLAB, including flow charts, loops, condition statements, and functions, is given. Basic numerical methods, including numerical integration, differentiation, and root finding are also covered. Emphasis is placed on using MATLAB to solve engineering problems, and using user-defined functions and toolboxes within MATLAB to create computer programs and GUI's. A brief introduction to Simulink is also given.

MET 2800:CNC Programming

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MET 1800 and EDG 1212

This course is an introduction to CNC programming, process identification, process optimization, and automation. Tooling and workholding selection will be incorporated into the manufacturing design process. Laboratory projects will emphasize safety, CNC programming techniques, engineering documentation, design considerations, and in process inspection.

MET 3101:Fluid Mechanics Principles & Applications

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (ENGR 2214 or MET 2124) and TCOM 2010

The objective of this course is to present fluid mechanics concepts and their applications to practical problems. The main areas are fluid properties, fluid statics, flow in conduits, pump selection and operation, fluid power systems, momentum transfer, external flow, and open channel flow. Principles will be related to industrial applications. Hands-on laboratory exercises will demonstrate principles and applications.

MET 3123:Dynamics of Machines

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ENGR 3122 or MET 3126) and MET 2501

The analysis of motion, velocity, acceleration, and forces in mechanisms and machines. Emphasis is placed on the analytical methods suitable for computerized analysis as well as graphical methods for visualization and preliminary design studies. Mechanical vibration isolation is also discussed.

MET 3124:Strength of Materials with Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 or MET 2124 **Concurrent:**

MET 3124L

A study of stress and strain of deformable bodies in tension, compression, bending, and torsion. Topics include: axial stress and strain, thermal stress and strain, statically indeterminate systems, torsional stress and strain, power transmission in shafts, bending stresses in beams, beam deflections, combined stresses, elastic buckling in columns, and finite element analysis methods.

Notes: Not equivalent to ENGR 3131

MET 3124L:Strength of Materials Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: ENGR 2214 or MET 2124 **Concurrent:**

MET 3124

The application of laboratory testing and analysis of results to determine the mechanical behavior of materials under load.

MET 3126:Engineering Dynamics with Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 or MET 2124

A study of the mechanics of particles and rigid bodies, considering practical examples. Topics covered include: kinematics and kinetics of particles; work and kinetic energy; impulse and momentum; rigid body motions; relative motion and moving coordinate systems. Machinery applications will be considered for majority of course materials.

MET 3132:Engineering Materials

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CHEM 1211 and TCOM 2010 **Concurrent:**

ENGR 3131 or MET 3124

A study of metals, ceramics, polymers, and composites as related to design. Areas include corrosion, atomic structure, mechanical properties, failure theories, fatigue, creep, cold working, heat treating, alloying, and non-destructive testing. The lab work includes tensile testing, heat treating, impact testing, hardness testing, and corrosion.

MET 3132L:Engineering Materials Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

MET 3132

In this course/laboratory students will gain practical experience in testing of materials including metals, polymers, and composites. Tests include tensile testing, heat treating, impact testing, hardness testing, and corrosion.

MET 3331:Tool Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 2301 and MET 2800 and (ENGR 3131 or MET 3124)

Jigs and fixtures for production machining processes are covered. Specific subjects include methods of gauging work pieces, ease and simplicity of operation, assembly methods, capital evaluation, techniques for locating and holding work pieces, time studies, tool steels, bending allowances, and reverse engineering techniques. The course is design project oriented. Projects include calculations of tooling forces and costs as well as complete production drawings of the tool design.

MET 3332:Rapid Design and Manufacture

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MET Majors and EDG 1212, or department approval

This course is focused on bringing products to market as quickly as possible primarily through the use of 3D scanning and additive manufacturing technologies. Product Design, reverse engineering, and rapid tooling are topics covered and applied in this course.

MET 3398:Internship in Mechanical Engineering Technology

3 Credit Hours

Prerequisite: Department Chair approval

This course allows students to enhance their classroom knowledge through practical application of theories to real-world issues in a real-world work environment. Students explore specific interests within their academic discipline and refine their post-graduation goals.

MET 3400:Thermodynamics and Heat Transfer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 and (PHYS 1111 or PHYS 2211)

A study of the fundamental laws of thermodynamics and heat transfer for non-MET students. Properties of ideal gases, mixtures of ideal gases, real substances as related to heat engines, heat pumps, refrigerators, and heat exchangers are covered. Basic applications of thermodynamics in the study of power plants, internal combustion engines, refrigeration systems and air conditioning systems are included. Heat transfer topics are introduced with applications for conduction, convection, and radiation.

MET 3401:Thermodynamics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 and (PHYS 1111 or PHYS 2211)

Covers the fundamentals of thermodynamics. Use of steam and gas tables is introduced. Property relations for ideal gases and incompressible liquids are introduced. Applications of the First and Second Laws to closed and open systems are studied. Heat engines, refrigerators, heat pumps, availability and irreversibility are studied.

MET 3402:Thermodynamics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ENGR 3343 or MET 3101) and (MET 3401 or ME 3410)

Continuation of Thermodynamics I with emphasis on applications. Transient flow analysis, combustion, internal and external combustion cycles, gas turbines, compressors, refrigeration and air conditioning processes are studied. Fundamentals of heat transfer are also covered.

MET 4112:Computer Aided Engineering & Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (ENGR 3131 or MET 3124 and (MET 3101 or ENGR 3343) and EDG 1212

Introduces the student to advanced geometry creation as the necessary input for engineering design and analysis using modern computer aided engineering tools such as finite element stress analysis (FEA) and computation fluid dynamics CFD. Emphasis is placed on the interdependency of geometry creation and engineering analysis.

MET 4124:Vibrations and Advanced Dynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2306 and (ENGR 3122 or MET 3126)

Theory of mechanical vibrations with applications to machinery and the kinematics and kinetics of three dimensional motion of rigid bodies are covered. Conventional and computer methods are used.

MET 4133:Advanced Engineering Materials

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3132 and (ENGR 3131 or MET 3124)

The course covers polymers, ceramics, composites, and advanced topics in ferrous and non-ferrous metallurgy. Advanced topics in mechanics of materials, including failure theories and analysis of composites are studied. Traditional methods and Finite Element Modeling and Analysis (FEM/FEA) are used.

MET 4141:Machine Design I

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: EDG 1212 and (ENGR 3122 or MET 3126) and MET 3132

The design of machines and machine elements, and cost considerations. The course focuses on power transmission in machines including gears, belts, pulleys, bearings, lubrication, clutches, brakes, chains, power screws, and gear trains. Stress calculations and material selection are discussed. Broad design issues such as safety, ethics, patents, product liability, time value of money, return on investment, and breakeven analysis are covered. Students work in design teams on a major design project.

MET 4142:Mechanical Systems Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 4141 and EDG 1212 and (ENGR 3122 or MET 3126)

Fundamental rules, laws and criteria for using Finite Element Analysis (FEA) in the design of mechanical components and systems for structural integrity, reliability, and economy are covered, including energy methods, finite difference methods and numerical methods. Failure theory from static and variable loading is emphasized. Broad design issues such as design engineering economics, engineering ethics in design and intellectual property are covered. The course includes design projects using FEA.

MET 4341:Automation Systems and Controls

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: (ENGR 3122 or MET 3126) **Concurrent:**

ECET 3000

The technology of integrating automation equipment for use in engineering systems is covered. Students design simulations and complete fully-automated projects involving the human-machine interfacing of analog and digital sensors, actuators, motors, machines, flexible automation devices, and other material handling systems. Advanced process control software is used for programing and sensory techniques, as well as automatic open and closed-loop systems, and PID feedback control.

MET 4342:Numerical Control of Machines

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MET 2800

A course in tooling and programming for Computer Numerical Control (CNC) machines. The course includes G-Code, conversational, and Computer Aided Manufacturing (CAM) programming languages and systems. Considerable emphasis on the integration of NC planning and programming into automated manufacturing systems. Topics in communications and computer networking for Direct Numerical Control (DNC) are discussed.

MET 4351:Manufacturing System Design Project

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: MET 4342

The Manufacturing Design Project is the capstone course for the Manufacturing Concentration in MET. Projects are assigned based on interest, equipment and software availability, and the specific background of the student. Projects require planning, proposal presentation, scheduling, engineering,

implementation, and written and oral presentations of project results. Students are encouraged to "design and build" and utilize concepts learned from the courses completed in the MET Manufacturing Concentration. Presentation and report writing skills are practiced.

MET 4400:Directed Study for MET

1-5 Credit Hours

Prerequisite: Consent of the Department Chair

Independent study on topics of mutual interest to faculty and students. Assignments depend upon the specific background of the student, equipment availability, software availability, etc. Projects require a proposal presentation, scheduling, implementation and both written and oral presentations of study results.

MET 4401:Heat Transfer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3401

This course encompasses the study of Steady-State Conduction (One Dimensional, Multiple Dimensions), Principles of Convection (Forced Convection, Natural Convection), Condensation and Boiling, Radiation Heat Transfer and Heat Exchangers.

MET 4411:Refrigeration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3402 (or concurrently)

The theory and applications of commercial refrigeration systems are studied. The thermodynamic analysis of the refrigeration cycle, load calculations and selection of components for refrigeration systems are covered.

MET 4421:Instruments and Controls

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ECET 3000 and (ENGR 3343 or MET 3101) **Concurrent:**

ECET 3000

This course covers the principles of engineering experimentation and process control. Students are instructed in current methods of data gathering, data regression, graphical analysis, result compilation, and report writing. Data gathering will include both manual techniques and computer data acquisition systems. An understanding of sensor selection, interfacing, and implementation is provided through lecture and laboratory assignments. The fundamentals of uncertainty analysis along with the application of dimensional analysis and similitude are covered. Programmable Logic Controllers (PLC's) are used to introduce students to process control. Laboratory exercises illustrating the use of instrumentation for performance evaluation and control of mechanical systems are conducted.

MET 4431:Plant and Power Applications

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3401 or ME 3410

A study of the applications of fluid mechanics, thermodynamics and heat transfer to industrial process plants. Fundamentals of piping design, selection of fans, heat exchangers and other components commonly used in industrial processes are covered.

MET 4490:Special Topics for MET

1-5 Credit Hours

Prerequisite: Consent of the Department Chair

Special topics selected by the program. Offered on a demand basis.

MET 4501:Machine Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDG 1212 and (ENGR 3122 or MET 3126) and MET 3132

The design of machines and machine elements, and cost considerations. The course focuses on power transmission in machines including gears, belts, pulleys, bearings, lubrication, clutches, brakes, chains, power screws, and gear trains. Stress calculations and material selection are discussed. Broad design issues such as safety, ethics, patents, product liability, time value of money, return on investment, and break even analysis are covered. Students start design teams for the capstone senior design project.

MET 4502:Senior Design

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: MET 4501

Senior design capstone project for mechanical engineering technology. In teams students will define design projects and write a proposal for the synthesis and analysis of an open-ended mechanical engineering design project, including written and oral communication. Students will also be prepared to take the FE exam.

Mechatronics

MTRE 1000:Introduction to Mechatronics Engineering

1 Class Hours 3 Laboratory Hours 2 Credit Hours

An introduction to career opportunities in Mechatronics Engineering; familiarization with college and departmental policies, curriculum, and facilities.

MTRE 2290:Special Topics - Mechatronics

1-6 Credit Hours

Special Topics course for Mechatronics

MTRE 2610:Intermediate Programming for Mechatronics

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1190 and ((CSE 1321 or ME 1311) and CSE 1321L)

This intermediate programming course covers programming topics relevant for Mechatronics Engineering, using tools such as C++, Arduino, and Python. Object-oriented programming techniques are introduced such as encapsulation, classes, inheritance, and operator overloading. Other course components include basic numerical methods and visualization of data in two and three dimensions. Laboratory exercises focus on programming relevant to mechatronics such as acquiring analog, digital, and camera sensor data, motor control, pneumatics, etc.

MTRE 3398:Internship in Mechatronics Engineering

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Engineering Standing and Department Chair approval.

This course provides workplace experience related to mechatronics engineering under the management of the employer supervisor and an academic instructor. The goal is for students to enhance their academic classroom skills with practical experiences in a real-world environment.

MTRE 3710:Mechatronics Engineering Fundamentals

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ((CSE 1322 and CSE 1322L) or MTRE 2610) and Engineering Standing **Concurrent:** MATH 3260 and (EE 2301 or EE 2305 or CS 3503)

This course provides fundamental skills for the mechatronics engineer plus technical writing experience. Topics include sensors and actuators, especially pneumatics and DC motors; programming and interfacing with the AVR microcontroller; and robot kinematics and obstacle avoidance with mobile robots.

MTRE 3800:Fluid Power

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: ENGR 2214 and MATH 2306 and Engineering Standing

Course provides a fundamental understanding of the physical principles of fluid mechanics and fluid power, along with a practical working knowledge of the components utilized in designing, installing, operating and maintaining hydraulic and pneumatic power systems.

MTRE 4001:Modeling and Feedback Control of Dynamic Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 2202 and (EE 2301 or EE 2305 or CS 3503) and PHYS 2211 and Engineering Standing

This is a control system course tailored for Mechatronics Engineering students. While it covers all topics in a traditional control system course, some additional topics, such as modeling of mechatronics systems, controller design of mechatronics system, and vibration control, are covered as well.

MTRE 4002L:Feedback Control Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: (ME 1311 or (CSE 1321 and CSE 1321L)) and Engineering Standing **Concurrent:** MTRE 4001

This is a laboratory course designed to complement the modeling and feedback controls topics. Feedback Control, MATLAB/Simulink Modeling are studied and analyzed using simulations and physical experiments.

MTRE 4010:Advanced Controls

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ((MTRE 4001 and MTRE 4002L) or EE 4201 or (ME 3501 and ME 4501)) and MATH 3260 and Engineering Standing

This course is an advanced study of modern control systems focused on control theories and system applications. It covers the basic theoretical methods and mathematical tools for analysis and design of control systems.

MTRE 4100:Instruments and Controls

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: EE 2501 and (ENGR 3343 or MTRE 3800 or EE 3701 or CPE 4010) and ((MTRE 4001 and MTRE 4002L) or ME 4201 or (ME 3501 and ME 4501)) and MATH 2306 and Engineering Standing

Characteristics of instruments used in mechanical systems for determining parameters such as temperature, pressure and flow are studied. The use of these devices in automated systems is covered both using feedback control and programmable logic controllers. Laboratory exercises illustrating the use of pertinent instrumentation for determining the performance of mechanical equipment are conducted.

MTRE 4200:Robotics Analysis and Synthesis

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: ((MTRE 4001 and MTRE 4002L) or EE 4201 or (ME 3501 and ME 4501 and ME 1311)) and (MATH 2203 or MATH 3260) and Engineering Standing

This course introduces the basic principles of robotic manipulators. Students will learn how to derive the mathematical models, plan trajectories, and design controllers for robot applications. Software tools, such as MATLAB, are employed to analyze and simulate the robot system.

MTRE 4300:Machine Learning for Robot Perception

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MTRE 2610 and MATH 2202 and MATH 3260 and Engineering Standing

This course introduces the most important topics in the areas of machine learning and computer vision and their specific applications in robotics and mechatronics. The machine learning and computer vision algorithms are extensively verified with simulated and physical robots in the

mechatronics lab. Students are trained for developing physical or virtual intelligent robot systems through integrating robot control and machine learning algorithms. Significant programming effort and lab hardware experience are expected.

MTRE 4400:Directed Research - Mechatronics

1-2 Class Hours 1-6 Laboratory Hours 1-6 Credit Hours

Prerequisite: Set by instructor of each individual section
Directed research course for Mechatronics.

MTRE 4490:Special Topics - Mechatronics

1-6 Credit Hours

Special Topics course for Mechatronics

MTRE 4800:Mechatronics System Design

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: EDG 1211 and MTRE 2610 and MTRE 4001 and MTRE 4002L and MTRE 4100 and (MTRE 4010 or MTRE 4200 or MTRE 4300 or MTRE 4400 or MTRE 4490) and Engineering Standing

The design of mechanical and electrical devices and systems, and cost considerations are covered. The course focuses on reliability, safety, energy and environmental issues, ethics, patents, product liability, time value of money, return on investment, and breakeven analysis. The design project is a capstone for the Mechatronics Engineering program. Projects are assigned based on interest, equipment and software availability, and the specific background of the student. Projects require planning, proposal presentation, scheduling, engineering, implementation, and written and oral presentations of project results. Students are encouraged to "design and build" and utilize concepts learned from courses throughout the program.

Military Science

MILS 1021:Leadership & Personal Development

2 Class Hours 3 Laboratory Hours 3 Credit Hours

General introduction of cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as time management, physical fitness, and stress management relate to leadership, Officer-ship, and Army operations. Focus is placed on developing basic knowledge and comprehension of Army Leadership Dimensions while gaining a big picture understanding of the ROTC program, its purpose in the Army, and its advantages for the student.

MILS 1022:Introduction to Tactical Leadership

2 Class Hours 3 Laboratory Hours 3 Credit Hours

This course overviews leadership fundamentals such as setting direction, problem-solving, listening,

presenting briefs, providing feed-back, and using elective writing skills. Cadets explore dimensions of leadership values; emphasis is placed on recruitment and retention of cadets. The building of stronger relationships among the cadets through common experiences and practical interaction are critical aspects of the course experience.

MILS 2021:Innovative Team Leadership

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MILS 1021, MILS 1022, prior military service or permission of the instructor.

This course explores the dimensions of creative and innovative tactical leadership, strategies, and styles by examining team dynamics of two historical leadership theories that form the basis of the Army leadership framework -- trait and behavior theories. Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank structure, duties, and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the contemporary operating environment (COE).

MILS 2022:Found Tactical Leadership

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: MILS 1021, MILS 1022, and MILS 2021, prior military service or permission of the instructor.

This course examines the challenges of leading tactical teams in the complex contemporary operation environment (COE). The course highlights include dimensions of terrain analysis, patrolling, and operation orders. The course furthers study of the theoretical basis of the Army leadership framework and explores the dynamics of adaptive leadership in the context of military operations. This course provides a smooth transition into MILS 3011. Cadets develop greater self awareness as they assess their own leadership styles and practice communication and team building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios.

MILS 2031:Army Physical Fitness Training

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Must have a Department of the Army (DA) Form 3425-R signed by a Physician and be enrolled in the Military Science Levels 1-4.

Develops skills needed to participate in, instruct, develop, and assess the Army Physical Fitness Test. Classes will meet Monday, Wednesday, and Friday from 6:00 am to 7:00 am in or near the gymnasium for training and lecture period.

MILS 3011:Adaptive Tactical Leadership

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: Advanced ROTC standing or permission of the department.

This course challenges cadets to study and practice adaptive leadership skills as they are presented

with challenging scenarios related to squad tactical operations. Cadets receive systematic and specific feedback, as well as their own self evaluations. Cadets continue to develop their leadership and critical thinking abilities. The focus is developing cadets' tactical leadership abilities to enable them to succeed at ROTC's summer Leadership Development and Assessment Course (LDAC).

MILS 3012:Leadership Change Environment

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: Advanced ROTC standing or permission of department.

This course uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations up to platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct military briefings and develop proficiency in garrison operation orders. The focus is on exploring, evaluating, and developing skills in decision-making, persuading, and motivating team members in contemporary operation environment (COE). Cadets are evaluated on what they know and do as leaders as they prepare to attend the ROTC summer Leadership Development Assessment Course (LDAC).

MILS 4011:Developing Adaptive Leadership

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MILS 3011, and MILS 3012

This course develops cadet proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing performance feedback to subordinates. Cadets assess risk, make ethical decisions, and lead fellow ROTC cadets. Lessons on military justice and personnel processes prepare cadets to make the transition to Army officers. MS IV cadets analyze, evaluate and instruct cadets at lower levels. Both their classroom and battalion leadership experiences are designed to prepare cadets for their first unit of assignment. They identify responsibilities of key staff roles, and use situational opportunities to teach, train, and develop subordinates.

MILS 4012:Leaders Complex World

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MILS 4011 or Advanced Course Standing.

This course identifies and resolves ethical dilemmas. This course explores the dynamics of leading in the complex situations of current military operations in the contemporary operating environment (COE). Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with non-governmental organizations, civilians on the battlefield, and host national support. The course places significant emphasis on preparing cadets for their first unit assignment. It uses case studies, scenarios, and "What Now, Lieutenant?" exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army.

MILS 4090:Special Topics in Military Science

1-5 Credit Hours

Prerequisite: Must be enrolled in, or have successfully completed both MSIII and MSIV-level ROTC classes or obtain permission from the Professor of Military Science.

This course allows for independent study with a faculty member. Topics and research will pursue topics of military science not extensively treated in any other Military Science course.

MILS 4400:Directed Study in Military Science

1-10 Credit Hours

Prerequisite: Permission of the instructor.

This course is offered to military science students interested in investigating special topics external to regular course offerings. This course is primarily offered as a completion course. Its secondary intent is to afford the Military Science Department the flexibility to offer course work to students who have special circumstances in their academic and commissioning requirements such as nursing and accelerated commissioning program cadets.

NS 1000:Naval Science Leadership Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Leadership Laboratory is an engaging and interactive professional development course required every semester for Navy and Marine option Midshipmen in the NROTC program.

NS 1321:Introduction to Naval Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course is an introduction and orientation class designed to give students a broad overview of the roles of the U.S. Navy and Marine Corps. This course also provides an introduction to the structure, terminology, customs, and uniforms of the Navy and Marine Corps.

NS 1323:Naval Maritime History

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only

This course surveys U.S. Naval history from its European origin to the present with emphasis on major developments and the geographical forces shaping these developments. The course also covers present day concerns on sea power and maritime affairs, including the economic and political issues of maritime commerce, the law of the sea, and the rise and decline of the Soviet Navy.

NS 2321:Naval Leadership and Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course provides the basis for the development of effective leadership and managerial

competence. It stresses learner-centered processes, such as collaboration, experiential exercises, reflective writing, and group discussion over lecture and presentations. Case study discussions are sequenced throughout the course to illustrate the relevance of key concepts presented in preceding class sessions and relate these ideas to the Fleet. Student participation is critical to this course.

NS 2323:Navigation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course is Marine navigation which blends both science and art. Students are taught how information from every available source is evaluated and compared. Navigators constantly evaluate a ship's position, anticipates dangerous situations well before they arise, and always keeps "ahead of the vessel." The modern navigator must also understand the basic concepts of the many navigation systems used today, evaluate the accuracy of output, and arrive at the best possible navigational decisions.

NS 3323:Evolution of Warfare

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

A historical exploration of warfare practiced by great nations. Selected campaigns are studied with emphasis on leadership, evolution of tactics, weaponry, and principles of war.

NS 3325:Naval Weapon Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course is designed to give students an in-depth understanding of naval weapons, their associated systems, and the integration of these weapon systems into the overall battle plan of the U.S. Navy while also reviewing Navy and Marine Corps platforms and their associated capabilities.

NS 3326:Naval Systems Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course is designed to develop and broaden the student's understanding of basic engineering concepts and principles as applied to naval engineering plants. The course will provide students with an understanding of naval engineering concepts that will be applied first-hand while on summer cruise in preparation for their division officer tours. It is not the intend of this course to cover each area in great detail, but rather to stimulate the interest of students for study and investigation in the future.

NS 4320:Naval Operations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course is an in-depth study of numerous aspects relating to the efficient and professional manner of U.S. Navy ships' operations.

NS 4322:Naval Leadership and Ethics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

Study of Naval values and ethics to include core values, Navy regulations, and military law. Duties and responsibilities of a junior naval officer.

NS 4333:Fundamentals of Maneuver Warfare

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Naval Science Minors only.

This course analyzes the United States Marine Corps as the overarching case study for the advent of maneuver warfare. This is a history and doctrine-based course. The object is to educate students in the characteristics, requirements, and problems of maneuver warfare. Although this course focuses on maneuver warfare, it is worthwhile to point out that maneuver warfare is merely a subset of warfare in general. While it exhibits certain unique characteristics, it also shares many characteristics with the broader field.

Music

MUSI 1020:Fundamentals of Music Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The fundamentals of music theory including music reading, rhythm and pitch orientation, accidentals, key and time signatures, rhythmic organization, intervals, scale formation, triad construction and chord spelling, elementary ear training and sight singing, and an introduction to the keyboard. Open to all university students. May not be counted for credit towards a music degree.

MUSI 1107:Music in Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the role of music in society through a study of musical works within their cultural and historical contexts. Course assignments develop skills in critical analysis and global perspectives as well as an understanding of the creative process. Required attendance at live performances provides the experiential component so crucial to the understanding and enjoyment of music. (Most events require paid admission.)

MUSI 1110:Introduction to World Music

1 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 1121

Introduction to music of the world's cultures.

Notes: Required laboratory component.

MUSI 1111:Aural Skills I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major or minor; placement determined by proficiency test.

For music majors and minors. Foundation work in sight singing including rhythmic and melodic dictation. Practical application includes some composition and improvisation.

MUSI 1120:Music Theory I Intensive

3 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a fully admitted music major or minor; placement determined by a proficiency test.

For music majors and minors. A correlated study of rhythmic, melodic, and harmonic aspects of music common practice. Development of basic skills in music theory and harmony including practical application through part-writing. Components include composition, improvisation, and practical keyboard applications. Contains a separate keyboard lab to increase proficiency.

MUSI 1121:Music Theory I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Must be a fully admitted music major or minor; placement determined by proficiency test.

For music majors and minors. A correlated study of rhythmic, melodic and harmonic aspects of music common practice. Development of basic skills in music theory and harmony including practical application through part-writing. Components include composition, improvisation and practical keyboard applications.

MUSI 1141:University Band

0 Class Hours 3 Laboratory Hours 1 Credit Hours

The University Band is a wind band that performs collegiate repertoire twice each semester. Non-music major wind and percussionists are strongly encouraged to enroll in this ensemble. No audition is required for the University Band.

MUSI 1142:Marching Band

0 Class Hours 6 Laboratory Hours 1 Credit Hours

Prerequisite: Audition required and prior high school or college instrumental or colorguard experience required.

This course develops the instrumental and visual performance skills of students within the college marching band setting. Objectives are to combine high-level musical/visual performance with uniform marching style to create entertaining shows suitable for football games. This course is open to

students in all majors. Auditions are required for participation and occur the week before fall classes begin. This course is offered every fall semester; max. 300 members.

MUSI 1143:Jazz Ensemble

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: Audition and permission of the instructor.

This course may be repeated for lower-division credit. The School of Music offers two large Jazz Ensembles that perform both on- and off-campus in concert. The ensembles perform a variety of styles within the jazz idiom including traditional swing, bop, Latin, Afro-Cuban, and funk.

MUSI 1144:University Philharmonic Orchestra

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: Membership is open to all students with previous experience playing an instrument.

May be repeated for lower-division credit. Study, rehearsal, and concert performance of literature for orchestra. No audition is required and non-music majors with previous orchestral experience are encouraged to play in the group.

MUSI 1145:Wind Symphony

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: Audition

This course offers music majors, minors, and non-music majors the opportunity to study, rehearse, and perform literature for the wind band medium. This course may be repeated for lower-division credit. Membership in the Wind Symphony is by audition only.

MUSI 1146:Chamber Singers

0 Class Hours 6 Laboratory Hours 1 Credit Hours

Prerequisite: Audition.

May be repeated for lower-division credit. Study, rehearsal, and concert performance of choral literature. Membership in Chamber Singers is by audition only.

MUSI 1147:Wind Ensemble

0 Class Hours 6 Laboratory Hours 1 Credit Hours

Prerequisite: Audition.

May be repeated for lower-division credit. Study, rehearsal and concert performance of literature for wind ensemble. Membership in Wind Ensemble is by audition only.

MUSI 1148:Symphony Orchestra

0 Class Hours 6 Laboratory Hours 1 Credit Hours

Prerequisite: Audition.

May be repeated for lower-division credit. Study, rehearsal and concert performance of literature for orchestra. Membership in the Orchestra is by audition only.

MUSI 1149:Chorale

0 Class Hours 3 Laboratory Hours 1 Credit Hours

May be repeated for lower-division credit. Study, rehearsal and concert performance of literature for choir.

MUSI 1165:Class Piano I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major; placement determined by proficiency test.

The purpose of class piano instruction is to equip non-piano majors with the keyboard proficiencies needed to be reasonably fluent in basic technical and reading skills for practical use as a professional musician.

MUSI 2122:Music Theory II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 1121

For music majors. A continuation of correlated study of rhythmic, melodic and harmonic aspects of music common practice. Continuation of keyboard harmony is included with application at the keyboard. Components include composition, improvisation and practical keyboard applications.

MUSI 2165:Class Piano II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 1165

Continuation of Class Piano I.

MUSI 2212:Aural Skills II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 1111

For music majors. Continuation of skill development in sight singing including rhythmic and melodic dictation. Practical application includes some composition and improvisation.

MUSI 2311:History of Music I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2122

A survey of Western music history and literature from the Ancient Greece to 1800.

MUSI 2312:History of Music II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2311

A survey of Western music history and literature from 1800 to the present.

MUSI 3000:Technology in Music

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2122

The development of practical experience with current computer applications and current technology specifically associated with music instruction and music performance. The course exposes students to current capabilities of technology as they relate to composition, instrumentation, performance and teaching.

MUSI 3007:Scoring for Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2122 and MUSI 3000

This course provides background, training and experience for the student in the area of scoring for media including film, television and gaming.

MUSI 3111:Aural Skills III

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 2212

For music majors. Advanced skill development in ear training and sight singing. Includes rhythmic and melodic dictation. Practical application includes some composition and improvisation.

MUSI 3112:Aural Skills IV

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3111

For music majors. Continuation of advanced skill development in ear training and sight singing. Includes rhythmic and melodic dictation. Practical application includes some composition and improvisation.

MUSI 3121:Music Theory III

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2122

For music majors. Advanced correlated study of music theory and harmony of common practice including chromatic harmony and 20th century harmonic techniques. Components include composition, improvisation, literature analysis and practical keyboard application.

MUSI 3122:Music Theory IV

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3121

For music majors. Continuation of advanced correlated study of music theory and harmony in common practice including analytical study of 20th century music. Components include composition, improvisation, literature analysis and practical keyboard application.

MUSI 3165:Class Piano III

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 2165

Continuation of MUSI 1166.

MUSI 3166:Class Piano IV

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3165

Continuation of MUSI 3165.

MUSI 3167:Class Piano V

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 1165, MUSI 2165, MUSI 3165, and MUSI 3166

This course will allow students to continue their piano training and apply specific accompanying and instructional techniques to choral literature for the classroom.

MUSI 3168:Advanced Keyboard Harmony

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3121

This course trains music majors in advanced keyboard harmony to prepare them for graduate-level music programs. Component skills may include the performance of harmonic progressions in all keys, memorized intermediate-level repertoire, score reading, figured bass realization, and improvisation.

MUSI 3200:Gospel Choir

0 Class Hours 2 Laboratory Hours 0-1 Credit Hours

The Gospel Choir is open to all students campus-wide. No audition is required to participate in this ensemble. The Gospel Choir performs twice each semester. Non-music majors are highly encouraged to enroll in this ensemble.

MUSI 3201:Men's Ensemble

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

The Men's Ensemble is open to all students campus-wide. No audition is required to participate in this

ensemble. The Men's Ensemble performs twice each semester on collegiate level literature. Non-music majors are highly encouraged to enroll in this ensemble.

MUSI 3202:Women's Choir

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

The KSU Women's Choir is open to all students campus-wide. No audition is required to participate in this ensemble. The Women's Choir performs twice each semester on collegiate level literature. Non-music majors are highly encouraged to enroll in this ensemble.

MUSI 3210:Classical Guitar Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

This course is designed to introduce classical ensemble playing to guitarists. The weekly class sessions and performances will help the student develop skills in sight reading, classical guitar styles, and ensemble playing.

MUSI 3211:Jazz Guitar Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

This course is designed to introduce jazz ensemble playing to guitarists. The weekly class sessions and performances will help the student develop skills in the following areas: Sight Reading, jazz styles, chord comping, and ensemble playing.

MUSI 3212:Jazz Combo

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

This course introduces jazz improvisation to students for instrumental performance. Students will perform jazz standards from the Real Book and other sources while applying concepts and patterns studied in class.

MUSI 3220:Percussion Ensemble

0 Class Hours 2 Laboratory Hours 0-1 Credit Hours

The Percussion Ensemble provides students with the opportunity to study, rehearse, and perform literature for group percussion.

MUSI 3221:String Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

The String Ensemble will allow students to improve ensemble-playing skills in a chamber setting on like stringed instruments. Students will rehearse standard ensemble pieces as well as new compositions and arrangements.

MUSI 3222:Woodwind Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

The KSU Woodwind Ensemble provides students rehearsal and performance experience in chamber music settings. Students will experience literature in both classical and jazz idioms.

MUSI 3223:Brass Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

The Brass Ensemble is designed to improve ensemble playing in a chamber setting. Brass ensemble members will work on standards ensemble pieces as well as new compositions and arrangements.

MUSI 3224:Piano Ensemble

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

The Piano Ensemble provides students with the opportunity to perform piano works written for four or more hands in a variety of genres and styles.

MUSI 3225:Mixed Chamber

0 Class Hours 1 Laboratory Hours 0-1 Credit Hours

The Mixed Chamber Ensemble allows students to learn literature in a small group setting with the assistance of faculty coaches. The Mixed Chamber Ensemble focuses on intonation, blend, stylistic awareness, ensemble precision, and knowledge of repertoire.

MUSI 3302:Vocal Literature: Musical Theater

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: ENGL 1101 and permission of the instructor.

Vocal literature, vocal techniques, and performance for the musical theater. This course will survey the musical repertory of standard major musical theater works. Students will prepare and perform songs, duets and group numbers from several musicals.

MUSI 3313:Jazz Theory

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 2122

This course introduces students to the language of jazz, including chord nomenclature and spelling, chord/scale relationships, chord function, and reharmonization techniques.

MUSI 3314:History of Rock and Roll

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is an in-depth study of the history and evolution of rock music, including the roots of rock and roll as well as rock styles and historical periods. Students will develop critical listening skills and will be able to identify important artists as well as artistic styles and song forms.

MUSI 3315:Vocal Literature

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

Solo vocal literature from 1600 to the present.

MUSI 3316:Music and the Holocaust

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

An examination of the music and musicians of oppressed groups during the Holocaust provides an example of musical marginalization and oppression in the past to foster global understanding and tolerance in the present. Classical, folk, and popular styles of music will be included, as will Holocaust memorial music.

MUSI 3317:History of Opera

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122

This course surveys the development of European Operatic literature from the Florentine Camerata to the present.

MUSI 3318:Introduction to Symphonic Music

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Orchestral literature from preclassic to present including symphony, concert overture, incidental music, program symphony and tone poem.

Notes: Emphasis on standard literature.

MUSI 3319:History of Jazz

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2122 or permission of the instructor.

This course is an in-depth study of jazz styles, historical periods, and innovative artists in the jazz idiom.

MUSI 3320:Form and Analysis

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

Techniques of structural analysis of musical compositions in a variety of styles and periods with emphasis on harmony and form. The analysis of contrapuntal form is included.

MUSI 3321:Advanced Ear Training

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122 and MUSI 3112

Extended training in harmonic dictation, sight singing, aural analysis and rhythm.

MUSI 3322:Jazz Theory and Composition

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

This course introduces the language of jazz and its application to jazz performance, improvisation, analysis and composition.

MUSI 3323:Jazz Arranging

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3313, or permission of the instructor.

A study of jazz arranging techniques for jazz ensembles. Students will arrange works for big band and jazz combos.

MUSI 3324:Instrumentation/Arranging

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

A study of the characteristics of orchestral instruments, including scoring principals and techniques. In addition the course includes the arranging of musical works for a variety of large and small vocal and instrumental ensembles.

MUSI 3325:Jazz Forms and Composition

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3313 or permission of the instructor

This course will introduce common song forms and compositional techniques in the jazz idiom in addition to analysis of lead sheets and large ensemble scores.

MUSI 3326:Class Composition I

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 2212 or MUSI 1121 or MUSI 1120 with a "B" or higher.

Students develop music composition skills by exploring basic techniques necessary for coherent creative expression. By writing original compositions for various instrumentations, students gain skills in the artistic use of pitch, rhythm, melody, timbre and harmony. 20th and 21st century styles and techniques are utilized, and students acquire skill in music improvisation. Students gain competency in the basics of music notation utilizing both calligraphy and composition software.

MUSI 3327:Class Composition II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3326 or MUSI 3371

Students develop further music composition skill by exploring techniques necessary for coherent creative expression. By writing original compositions for various instrumentations, students gain abilities in the artistic use of pitch, rhythm, melody, timbre and harmony. 20th and 21st century styles and techniques are utilized. Students gain technology competency in the use of composition software and by learning the basics of digital audio and video editing of recorded performances.

MUSI 3331:Choral Conducting

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3121

Fundamental elements of conducting including baton technique, score reading, cueing, expression, interpretation and rehearsal skills with an emphasis on applying these techniques in practical conducting experiences involving vocal and instrumental ensembles.

MUSI 3332:Instrumental Conducting

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3121

Fundamental elements of conducting including baton technique, score reading, cueing, expression, interpretation and rehearsal skills with an emphasis on applying these techniques in practical conducting experiences involving vocal and instrumental ensembles.

MUSI 3333:Accompanying

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major; and permission of the instructor.

May be repeated for upper-division credit. For music majors. The practical application of accompaniment techniques.

MUSI 3334:Italian and English Diction

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Designed for the vocal music major. The study of the pronunciation, enunciation, and expression of the Italian and English language in singing.

MUSI 3335:German and French Diction

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3334

Designed for the vocal music majors. An applied performance laboratory for the study of the pronunciation, enunciation, and expression of the German and French language in singing.

MUSI 3336:Diction for Singers

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully-admitted music major.

This course will focus on applying the International Phonetic Alphabet to the transliteration of French, German, Italian, and English languages.

MUSI 3341:University Band

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

The University Band is a wind band that performs collegiate repertoire twice each semester. Non-music major wind and percussionists are strongly encouraged to enroll in this ensemble. No audition is required for the University Band.

MUSI 3342:Marching Band

0 Class Hours 6 Laboratory Hours (0-1) Credit Hours

Prerequisite: Audition required and prior high school or college instrumental or colorguard experience required.

This course develops the instrumental and visual performance skills of students within the college marching band setting. Objectives are to combine high-level musical/visual performance with uniform marching style to create entertaining shows for football games. This course is open to all students in all majors. Auditions are required for participation and occur the week before fall classes begin. This course is offered every fall semester; max 300 members.

MUSI 3343:Jazz Ensemble

0 Class Hours 4 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition and permission of the instructor.

This course may be repeated for upper-division credit. The School of Music offers two large Jazz Ensembles that perform both on- and off-campus in concert. The ensembles perform a variety of styles within the jazz idiom including traditional swing, bop, Latin, Afro-Cuban, and funk.

MUSI 3344:University Philharmonic Orchestra

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

Prerequisite: Membership is open to all students with previous experience playing an instrument.

May be repeated for upper-division credit. Study, rehearsal, and concert performance of literature for orchestra. No audition is required and non-music majors with previous orchestral experience are encouraged to play in the group.

MUSI 3345:Wind Symphony

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition

This course offers music majors, minors, and non-music majors the opportunity to study, rehearse,

and perform literature for the wind band medium. This course may be repeated for upper-division credit or zero credit. Membership in the Wind Symphony is by audition only.

MUSI 3346:Chamber Singers

0 Class Hours 6 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition.

May be repeated for upper-division credit. Study, rehearsal and performance of choral literature. Membership in Chamber Singers is by audition only.

MUSI 3347:Wind Ensemble

0 Class Hours 6 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition.

May be repeated for upper-division credit. Study, rehearsal and concert performance of literature for wind ensemble. Membership in the Wind Ensemble is by audition only.

MUSI 3348:Symphony Orchestra

0 Class Hours 6 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition.

May be repeated for upper-division credit. Study, rehearsal and concert performance of literature for orchestra.

Notes: Membership in the orchestra is by audition only.

MUSI 3349:Chorale

0 Class Hours 3 Laboratory Hours 0-1 Credit Hours

May be repeated for upper-division credit. Study, rehearsal and concert performance of literature for choir.

MUSI 3350:Advanced Choral Conducting/Literature

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3112, MUSI 3122, and MUSI 3331

Advanced elements of conducting including baton technique, score reading, cueing, expression, interpretation and rehearsal skills with an emphasis on applying these techniques through choral literature in practical conducting experiences involving choral ensembles. Required laboratory component.

MUSI 3351:Advanced Instrumental Conducting/Literature

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122, MUSI 3112, and MUSI 3332

Advanced elements of conducting including baton technique, score reading, cueing, expression,

interpretation and rehearsal skills with an emphasis on applying these techniques through band and orchestra literature in practical conducting experiences involving instrumental ensembles. Required laboratory component.

MUSI 3352:Opera Theater

0 Class Hours 6 Laboratory Hours 0-1 Credit Hours

Prerequisite: Audition.

May be repeated for upper-division credit. Techniques for the singing actor studied through the production of scenes from the dramatic repertory.

MUSI 3353:Jazz Improvisation I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 2122

An introduction to jazz improvisation for any instrument and application of jazz improvisation techniques to jazz repertoire including modal compositions, blues, minor blues, and compositions with major cadences.

MUSI 3354:Jazz Improvisation II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3122 and MUSI 3353, or permission of Jazz Studies Director

A continuing methodology designed to improve jazz improvisation, for any instrument and application in jazz, that focuses on rhythm changes form, altered dominants, bebop concepts, and unconventional harmonies.

MUSI 3355:Jazz Improvisation III

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3122 and MUSI 3354, or permission of Jazz Studies Director

A continuing methodology designed to improve jazz improvisation, for any instrument and application in jazz, that focuses on melodic minor derivations, cycling altered dominants, pentatonic concepts, and non-traditional harmonies.

MUSI 3360:Jazz Piano

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 1165

An introduction to jazz piano skills for the non-pianist including interpreting chord symbols and sophisticated harmonies, learning functional voicings, and performance competency.

MUSI 3361:Piano Accompaniment for Jazz Vocalists

0 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3360

The purpose of this course is to train jazz vocalists to perform basic- to intermediate-level accompaniment on the piano while singing.

MUSI 3367:Vocal Skills I

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: All developmental studies courses if required. Non-music majors require permission of the instructor.

Vocal proficiency for music majors and non-majors. Emphasis on tone production, diction, performing skills and the physiology of the voice.

MUSI 3368:Vocal Skills II

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3367

Continuation of MUSI 3367.

MUSI 3371:Composition I

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 2122, or MUSI 1121, or MUSI 1120 with a "B" or higher

Individually tailored instruction is utilized for the development of music composition skills by writing in traditional and contemporary styles in both small and large forms and for a variety of media.

MUSI 3372:Composition II

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3371 and permission of the instructor.

Individually tailored instruction is utilized for the development of music composition skills by writing in traditional and contemporary styles in both small and large forms and for a variety of media.

MUSI 3390:Music Entrepreneurship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Acceptance into the Music Entertainment and Business program or completion of MUSI 3122

Students will work on a series of projects to understand aspects of what is required to have a successful career in the music industry in the 21st century and build the skills beyond musicianship that will aid in attaining musical goals.

MUSI 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education/internship (Career Services).

A supervised work experience program for a minimum of two academic semesters at a site in

business, industry or government. For sophomore-, junior, or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

MUSI 3398: Internship

1-12 Credit Hours

Prerequisite: Approval of School Director.

A supervised, credit earning work experience of one academic semester with a previously approved business firm, private agency or government agency.

Notes: Credit is allowed only in elective areas.

MUSI 3411: Survey of African-American Music

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

An examination of the development of African-American music from its roots in Africa to the present time in America. The course examines the various genres of African-American music created by Africans including: spirituals, work songs, blues, gospel, jazz, rhythm and blues, and art music. The course also examines the development of the black church, minstrels, black classical music artists, and black classical music composers and their compositions.

MUSI 3412: The Blues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 1020 or MUSI 1120 or MUSI 1121

This course is an in-depth study of the history and evolution of Blues music, including the roots of West African field hollers and work songs, as well as European influences. Students will develop critical listening skills and will be able to identify important artists along with artistic styles and song forms.

MUSI 4400: Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor, major area committee and department chair prior to registration.

Selected topics of an advanced nature, which may include original research projects.

MUSI 4410: Contemporary Music Literature

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

Music literature from Impressionism to the present.

MUSI 4412:Survey of American Music

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 1120 or MUSI 1121

Through an examination of the role of music in American society, and a study of American musical works from the Native Americans to the present day, this course provides a context-based understanding of the cultural history of the United States and develops skills in critical analysis.

MUSI 4413:Piano Literature I

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 2122 and permission of the instructor

Keyboard literature from 1600 to the present.

MUSI 4414:Piano Literature II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 4413 or permission of the instructor.

Continuation of keyboard literature from 1600 to the present.

MUSI 4419:Introduction to Schenker

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122

A study of tonal, common-practice music in the Western art music tradition from the perspective of Schenkerian (reductive) analysis. Activities include investigations of harmony, voice leading, form, and implications for performance. Encourages students to debate the merits of different analyzes of the same work. Culminates in scholarly research by the student that builds upon previous Schenkerian analyzes. A writing-intensive course.

MUSI 4420:Counterpoint

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122

Analysis and principles of writing in the contrapuntal styles of the common practice period to the present.

MUSI 4421:Contemporary Analytical and Compositional Techniques

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122

This course surveys 20th- and 21st-century musical styles and theoretical systems, teaching students how to analyze a variety of works in which Common-Practice Period norms of tonality, rhythm, form, timbre, and texture have been superseded by new developments. Corresponding compositional exercises deepen student understanding of these new approaches. Topics include free atonality,

serialism, neoclassicism, minimalism, allusions, chance, and electronic composition. The course prepares students to analyze music, write model compositions, and develop analytical papers.

MUSI 4422:Music Theory Pedagogy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122 and MUSI 3112

This course introduces music majors to the field of music theory pedagogy and enables students to teach written theory and aural skills at the undergraduate level. Students team-teach lessons in undergraduate courses in the School of Music and prepare materials for potential graduate school applications.

MUSI 4423:Current Directions in Musicology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 2312

This course offers an introduction to musicology including its origins, development and methodologies. Students will develop skills necessary for critical enquiry in music through engagement with theories of historiography, aesthetics, and performance practice, as well as critical assessment of current issues in the field.

MUSI 4430:Piano Pedagogy I

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Must be a fully admitted music major.

Beginning-, elementary, and intermediate level teaching materials and methods for piano.

MUSI 4431:Piano Pedagogy II

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 4430 and permission of the instructor.

Continuation of beginning-, elementary-, and intermediate-level teaching materials and methods for piano.

MUSI 4433:Voice Pedagogy

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUAP 2222

Pedagogical methods, vocal physiology and literature for training voices from beginning to advanced levels.

MUSI 4434:Vocal Pedagogy for Ensemble Singing

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: MUSI 3334 or MUSI 3336

Pedagogical methods for voice and vocal ensembles, vocal physiology and literature for training voices from beginning to advanced levels.

MUSI 4435:(Name of Instrument) Pedagogy and Literature

1 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122

Pedagogical methods, techniques, physiology and literature in the principal performance concentration area.

MUSI 4436:Jazz Pedagogy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (MUSI 1143 or MUSI 3343)

This course introduces students to the methodologies and resources of jazz pedagogy. Students will learn appropriate literature for a variety of age levels as well as rehearsal techniques for both the large and small jazz ensemble.

MUSI 4471:Composition III

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3327 or MUSI 3372 and permission of the instructor.

Individually tailored instruction is utilized for the development of music composition skills by writing in traditional and contemporary styles in both small and large forms and for a variety of media.

MUSI 4472:Composition IV

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 4471 and permission of the instructor.

Individually tailored instruction is utilized for the development of music composition skills by writing in traditional and contemporary styles in both small and large forms and for a variety of media.

MUSI 4473:Composition V

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 4472

Individually tailored instruction is utilized for the development of music composition skills by writing in traditional and contemporary styles in both small and large forms and for a variety of media.

MUSI 4480:Research for Senior Recital

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Senior standing in applied performance.

A research project based on the literature to be presented in the senior recital. Analysis of the literature. Program notes to be drawn from research and analysis.

MUSI 4490:Special Topics in Music

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected special topics of interest to faculty and students.

MUSI 4495:Senior Seminar in Music

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Completion of applied studies and completion of 90 hours of course work and permission of the instructor and capstone committee one semester prior to registration.

A capstone course designed to complete the major by integrating the student's prior academic, theoretical and applied experiences in music. Students fulfill projects in areas of musical performance, lecture presentations, creative work, scholarly documents, pedagogy or arts advocacy.

MUSI 4496:Senior Capstone Music Project

1 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Completion of 90 hours of course work and admitted music major.

A senior-level research course designed to provide a learning experience that integrates the student's prior academic, theoretical, research, and applied experiences in music. Students fulfill projects that synthesize and disseminate their work through a lecture, lecture-performance, or scholarly paper.

Music - Applied

MUAP 1101:Music Symposium

0 Class Hours 2 Laboratory Hours 0 Credit Hours

All music majors are required to take this course in conjunction with private studio instruction.

Through lecture, master classes, recitals, and performances, they will broaden understanding and appreciation of a variety of styles of music and pedagogy.

MUAP 1111:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 1112:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 1113:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 1121:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 1122:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 1123:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 2211:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 2212:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 2213:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 2221:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 2222:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 2223:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 3311:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 3312:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 3313:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 3320:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

MUAP 3321:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 3322:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Notes: Recital component

MUAP 3323:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4411:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Notes: Recital component

MUAP 4412:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Recital component

MUAP 4413:Applied Lessons

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Recital component

MUAP 4421:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: Recital component

MUAP 4422:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Recital component.

MUAP 4423:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: Recital component

MUAP 4521:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4522:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4523:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4621:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4622:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

MUAP 4623:Applied Lessons

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Music and Entertainment Business

MEBU 1101:Introduction to the Music and Entertainment Business

1 Class Hours 0 Laboratory Hours 1 Credit Hours

An introduction to the fundamental concepts of the business practices related to the music and entertainment industry. The course will focus on skills necessary for beginning and maintaining a professional career in the music and entertainment industry. The course will have an emphasis on practical applications of classroom knowledge to the music business and entertainment environment.

MEBU 2270:Entertainment Media Production

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of MEBU Director and class instructor

This course is designed to equip students with the skills to gain a basic working knowledge of media production as it applies to the entertainment industry. Specifically, students are introduced to audio and video production techniques through hands-on learning modules, relevant lectures, and real world technology project development and implementation. This course will establish a solid foundation for both immediate student application and further specialized media production studies.

MEBU 3100:Fundamentals of the Music and Entertainment Business

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: 90 credit hours, recommended minimum cumulative GPA of 2.8, application and acceptance to the Music and Entertainment Business Certificate program, and permission of the MEBU director.

This course is a survey of the music and entertainment industry, its various prominent commercial

and regulatory organizations, and its developmental history and future directions. Specific topics covered in this course include music and entertainment company operations, income generation, distribution models, publishing technologies, film, television, new media, and emerging trends.

MEBU 3280: Fundamentals of Creative Adaptability (Video Production)

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Concurrent:

MEBU 2270

This course is designed to equip students with the skills to gain a basic working knowledge of video production as it applies to the entertainment industry. Specifically, students are introduced to video production techniques through hands-on learning modules, relevant lectures, and real-world technology project development and implementation.

MEBU 3370: Fundamentals of Audio Production and Technology

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: MEBU 2270

This course provides students with fundamental learning opportunities focused specifically on the field of audio production & technology. Students will gain specialized knowledge, vocabulary, and skills related to audio recording techniques, the principles of sound and hearing, computer software/hardware, live sound production, studio equipment, and a broad range of audio production competencies. Students learn through a balance of relevant lectures, hands-on workshops, and real-world recording, mixing, and mastering projects.

MEBU 3380: Principles of Creative Adaptability (Video Production)

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: MEBU 3280

This course is the subsequent level course in video production and is designed for students to develop intermediate to advanced skills in camera operations content creation, shooting video, pre-production, production, storyboard, editing in Adobe Premiere and audio production. Students will develop and present pre-production and production packets for an intermediate level video project.

MEBU 3398: Internship in the Music and Entertainment Business

1-3 Credit Hours

Prerequisite: 90 credit hours, recommended minimum cumulative GPA of 2.8, application and acceptance to the Music and Entertainment Business Certificate program, successful completion of MEBU 3100, and permission of the MEBU director.

This internship is intended for music and entertainment business program students who show interest in an area of study and wish to pursue a discipline of practical and applied experience in greater depth. Student must be directed by the program director and sponsored by an approved music or entertainment business.

MEBU 4100:Emerging Trends of the Music and Entertainment Business

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: 90 credit hours, recommended minimum cumulative GPA of 2.8, application and acceptance to the Music and Entertainment Business Certificate program, successful completion of MEBU 3100, and permission of the MEBU director.

This course is an in-depth study of topics of specific relevance to the music and entertainment industry, with a strong emphasis on experiential learning and practical application of classroom knowledge to the music and entertainment business environment. In-depth focus on entrepreneurship, business plans, practical experiences, on-the-job training, resume-building and exploration of career opportunities in the music and entertainment industry.

MEBU 4200:Current Topics in the Music and Entertainment Business

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: 90 credit hours, recommended minimum cumulative GPA of 2.8, application and acceptance to the Music and Entertainment Business Certificate program, successful completion of MEBU 3100, and permission of the MEBU director.

Selected current topics of interest to faculty and students that focus on the Music and Entertainment Business. In-depth focus on ethics and ideologies, convergence, sponsorships, endorsements, technologies, brands, licensing and applications of copyright law, business plans, intellectual property rights and the future of the music and entertainment industry.

MEBU 4470:Advanced Audio Production and Technology

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: MEBU 3370

This course is an advanced exploration into audio recording techniques and studio production. This course is taught in the classroom and a professional studio environment providing students with an immersive experience to learn, practice, and implement real-world audio production techniques. Students will gain up-to-the-minute skills by utilizing state-of-the-art recording equipment and shadowing audio industry professionals. Students will gain practical audio project management and implementation experience by overseeing a large-scale recording studio project.

MEBU 4480:Advanced Creative Adaptability (Video Production)

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: MEBU 3380

This course is the advanced level course in video production and is designed for students to develop advanced skills in camera operations content creation, storyboard, shooting video, pre-production, production, post-production, editing in Adobe Premiere and audio production. Students will develop and present post- production and delivery packets for an advanced level video project.

MEBU 4490:Special Topics in the Music and Entertainment Business

2 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 90 credit hours, recommended minimum cumulative GPA of 2.8, application and acceptance to the Music and Entertainment Business Certificate program, successful completion of MEBU 3100, and permission of the MEBU director.

Selected special topics of interest to faculty and students that focus on the Music and Entertainment Business.

Music Education

MUED 2210:Music Education Colloquium

1 Class Hours 1 Laboratory Hours 0-1 Credit Hours

Prerequisite: Formal admission to the School of Music.

Music Education Colloquium is an introduction to the development of instructional materials and professional artifacts through observations, peer teaching, and the application of technological resources.

MUED 3301:General Methods, Materials and Curriculum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122, EDUC 2110, and admission to the Teacher Education program.

The development of specific teaching skills, techniques and materials to support the role of the elementary/general music teacher. The course prepares prospective general track music specialists for all aspects of the role including curriculum design and the incorporation of a wide variety of methodologies into classroom instruction. Field component and peer teaching required. This course is a requirement for all music education majors.

MUED 3302:Choral Methods, Materials, and Curriculum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122, MUSI 4434, EDUC 2110, and admission to the Teacher Education program.

The development of the specific teaching skills, techniques and materials to support the role of the choir director and vocal music teacher. The course prepares prospective choral/vocal track music specialists for all aspects of the role including curriculum design, rehearsal procedures, methodologies, and the study of appropriate choral literature. Field component, peer teaching and laboratory conducting are required. This course is a requirement for all choral/vocal music education majors.

MUED 3303:Instrumental Methods, Materials and Curriculum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122 ,EDUC 2110 , and admission to the Teacher Education program.

The development of specific teaching skills, techniques and materials to support the role of band

director and instrumental music teacher. The course prepares prospective instrumental track music specialists for all aspects of the role including curriculum design, rehearsal procedures, methodologies and the study of appropriate band literature. Field component, peer teaching and laboratory conducting are required.

MUED 3305: Educational Literature and Technology

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 3122, EDUC 2110, and admission to the Teacher Education program.

This course will examine musical literature appropriate for P-12 music classrooms and assist in developing teaching strategies appropriate to a wide range of skill levels. In addition, students will learn to utilize various technology programs in the classroom to assist with course development, ensemble performance, and overall student achievement.

MUED 3308: Music Education for Exceptional Students

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MUSI 3122; admission to the Teacher Education program.

Focus on characteristics and abilities of individuals with disabilities and the effect upon musical learning and performance. Students will develop materials and teaching strategies in music appropriate to students with special needs. Content includes current legal, educational, and therapeutic issues as they relate to the teaching of music. This course requires field experiences.

MUED 3314: Choral Literature

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 1110 and MUSI 3122

A survey of large and small choral works from the Renaissance to the present with emphasis on practical performing editions and special attention to contemporary literature.

MUED 3334: Foundations of Music Education

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: MUSI 2122

An exploration of the interaction of historical, social, and philosophical forces and the development of music education, and the justification of a music education program in schools. Issues of career opportunities in music education are included. This course is required for all music education majors.

MUED 3340: Music for Early and Middle Grades

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Admission to the Teacher Education program.

A course designed for preparing elementary school educators to integrate meaningful musical experiences into the classroom. Prospective elementary classroom educators will develop basic concepts, skills, methods of instruction, and teaching competencies in the specific areas of music.

MUED 3351:String Techniques

2 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

This course provides basic teaching and playing competencies on violin, viola, cello and bass. Students learn technical skills on the instrument and a variety of pedagogical strategies to be used while teaching in a group or individual setting. Students gain the ability to correctly sequence teaching episodes and diagnose and correct common problems in upper-level string playing.

MUED 3352:String Techniques Class II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

This course provides basic teaching and playing competencies on cello and/or double bass. Students learn technical skills on the instrument and a variety of pedagogical strategies to be used while teaching in a group or individual setting. Students gain the ability to correctly sequence teaching episodes and will be able to diagnose and correct common problems in lower string playing.

MUED 3353:Guitar Techniques Class

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are REQUIRED for all music education majors. They are taken by advisement according to track and concentration. Guitar Techniques Class provides for basic teaching and playing competencies on guitar.

MUED 3355:Voice Techniques Class

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major

Instrument Techniques are REQUIRED for all music education majors. They are taken by advisement according to track and concentration. Voice Techniques Class provides for basic teaching competency and basic vocal technique in the area of voice.

MUED 3357:Percussion Techniques Class

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required for all music education majors. They are taken by advisement according to track and concentration. Percussion Techniques Class provides for basic teaching competency in the area of percussion instruments.

MUED 3360:(Name of Instrument) Techniques

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required for all music education majors. They are taken by advisement and provide for the necessary competencies in each of the music education track specializations.

MUED 3361:Brass Techniques

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrumental techniques are required for all music education majors, and taken by advisement according to concentration. Brass Techniques Class provides basic teaching and playing competency on trumpet, horn, trombone, euphonium, and tuba.

MUED 3362:Brass Techniques Class II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument techniques are required for all music education majors. They are taken by advisement according to concentration. Brass Techniques Class II provides for basic teaching and playing competency on trombone, euphonium and tuba.

MUED 3363:Brass Techniques Class III

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major and have the permission of the instructor.

Advanced Techniques in Brass Instrumental pedagogy and performance competency.

MUED 3365:Woodwind Techniques Class I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required for all music education majors. They are taken by advisement according to concentration. Woodwind Techniques Class I provides for basic teaching and playing competency on clarinet and saxophone.

MUED 3366:Woodwind Techniques Class II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required for all music education majors. They are taken by advisement according to concentration. Woodwind Techniques Class II provides for basic teaching and playing competency on flute and oboe.

MUED 3367:Woodwind Techniques Class III

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major and have the permission of the instructor.

Advanced Techniques in Woodwind instrumental pedagogy and performance competency.

MUED 3370:Marching Band Techniques

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

This course provides a practicum in budgeting, organizing, parent groups, rehearsing, planning, and performance of a marching band program at the high school level. Drill software will be used to facilitate the creation of formations, transitions, and overall design of marching band shows.

MUED 3371:Brass/Woodwind/Percussion Techniques

1 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required by all music education majors and taken by advisement according to concentration. Brass/Woodwind/Percussion Techniques provides a semester overview, including pedagogical principles designed for Choral, General, Guitar, and Piano Majors.

MUED 3372:Strings/Guitar Techniques

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: Must be a fully admitted music major.

Instrument Techniques are required by all music education majors. They are taken by advisement according to track and concentration. Strings/Guitar Techniques provides a split-semester overview, including pedagogical principals designed for Choral, General, and Piano Concentration (not Instrumental, Guitar or String.)

MUED 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education/internship (Career Services).

A supervised work experience program for a minimum of two academic semesters at a site in business, industry or government. For sophomore-, junior-, or senior-level students who wish to obtain successive on the job experience in conjunction with their academic training.

MUED 3398:Internship

1-12 Credit Hours

Prerequisite: Previous baccalaureate degree, acceptance into the Teacher Education program, and approval of music education program coordinator.

Full-time teaching experience in a work setting, supervised by music education faculty. Student must comply with requirements indicated by the Center for Education Placements and Partnerships of the Bagwell College of Education. The student attends regularly scheduled team-taught music education seminars.

MUED 4000:Advanced Pedagogy and Arranging

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Acceptance into the Teacher Education program.

Students will gain advanced skills in diagnosing and correcting pedagogical issues appropriate for secondary music students. Students will learn to utilize appropriate technology and skills to arrange music for developmental students.

MUED 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and director of the School of Music prior to registration.

Selected topics of an advanced nature, which may include original research topics.

MUED 4470:Student Teaching/Seminar

12 Credit Hours

Prerequisite: Admission to Student Teaching and successful completion of senior recital.

Full-time teaching experience in music education with a designated school district, under the supervision of a cooperating teacher in the field, and a university supervisor. The student must have approval from the School of Music and the Center for Education Placements and Partnerships. The student attends a regularly scheduled team-taught music education seminar.

MUED 4490:Special Topics in Music Education

1-3 Credit Hours

Prerequisite: Approval of instructor and Director of School of Music prior to registration.

Selected special topics in music education, which are consistent with research, curriculum, and/or creative practices.

MUED 4650:Yearlong Clinical Experience I

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: Admission to Music Education Admission to Teacher Education Admission to Yearlong Clinical Experience Issued Pre-service Certificate **Corequisite:** EDUC 4610

This course is the first semester of an intensive and extensive coteaching yearlong clinical experience in music education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This course includes regularly scheduled professional seminars. Proof of liability insurance is required.

MUED 4660:Yearlong Clinical Experience II

0 Class Hours 40 Laboratory Hours 10 Credit Hours

Prerequisite: MUED 4650, Educator Ethics Assessment 360 Eligibility, and GACE Eligibility

This course is the second semester of an intensive and extensive co-teaching yearlong clinical experience in music education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement. This course includes regularly scheduled professional seminars. Proof of liability insurance is required.

Nursing

NURS 3209:Theoretical Basis for Holistic Nursing & Health

4 Class Hours 6 Laboratory Hours 6 Credit Hours

Prerequisite: BIOL 3317 (may be taken concurrently). ***Corequisite:*** NURS 3309

The first nursing course is designed to introduce the student to the philosophical and theoretical basis for professional nursing in primary and secondary care settings. The student is encouraged to be self-assessing, self caring, and self directive. Emphasis is on the six processes of nursing, self care requisites, and holistic health. Learning experiences are provided in the Nursing Learning Resource Center, KSU's Wellness Center and selected primary and secondary care settings.

NURS 3302:Professionalism and Ethics in Nursing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209, NURS 3309 and BIOL 3317 ***Corequisite:*** NURS 3303 and NURS 3313

Students analyze historical, contemporary, and global perspectives on the role of nursing in society, and on professional nursing roles within the context of contemporary health care delivery systems. Primary emphasis is on the ethical and legal foundations of nursing, including exploration of common ethical and legal dilemmas encountered at the beginning and end of life, as well as in everyday nursing encounters. In addition, students develop communication skills essential to collegial nursing practice and to collaborative roles within interdisciplinary health care teams. Students apply and critique selected models of ethical decision-making, and explore their utility for nursing practice and for assuming responsibility and accountability for nursings' ethic of care and commitment to client advocacy.

NURS 3303:Clinical Pharmacology for Nurses

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209 or registered nurse status.

An introduction to fundamental pharmacologic principles and their application. The nursing process approach will provide the theoretical base for the knowledge and skills needed to safely administer medications.

NURS 3309:Health Assessment

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 2261 ***Corequisite:*** NURS 3209

Introduction to basic interviewing and physical assessment techniques involved in the process of

health assessment of clients. Emphasis is placed on recognition of normal findings, and common deviations association with pathologies.

NURS 3313:Adult Health Nursing

3 Class Hours 9 Laboratory Hours 6 Credit Hours

Prerequisite: NURS 3209, NURS 3309 and BIOL 3317 **Corequisite:** NURS 3302 and NURS 3303

Application of the processes of nursing to commonly encountered problems of middle-aged and elderly adults.

NURS 3314:Mental Health Nursing

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209, NURS 3302 (or concurrent with accelerated program status), NURS 3303 (or concurrent with accelerated program status), NURS 3309, NURS 3313, (or concurrent with accelerated program status), and BIOL 3317

Application of the processes of nursing to commonly encountered mental health problems across the lifespan.

NURS 3318:Parent-Child Nursing

3 Class Hours 9 Laboratory Hours 6 Credit Hours

Prerequisite: NURS 3209, NURS 3302, NURS 3313, NURS 3303, and BIOL 3317

Application of the processes of nursing to commonly encountered problems of young adults in the childbearing years, and newborns, children, and adolescents.

NURS 3330:Health Systems and Health Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHE 2100 or IHS 2100 or NURS 3209

This course provides an overview of the basic structures and operations of the U.S. health system, including its major characteristics, foundations, components, finance, and future; health policy development process; and the impact of health policy on health systems and population health.

Notes: This course is crosslisted with PHE 3330

NURS 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the department chair.

A supervised work experience program for a minimum of two academic semesters at a site in a health care agency. Work experience is combined with seminars conducted at intervals during the semester. For senior level students who wish to obtain on the job experience in conjunction with their academic program. Credit is allowed only in elective areas.

NURS 3398: Internship in Health Care

1-3 Credit Hours

Prerequisite: Approval of the department chair.

A supervised work experience program for one academic semester in a health care agency. Work experience is combined with seminars conducted at intervals during the semester. For students who wish to obtain on the job experience in conjunction with their academic program. Credit is allowed only in elective areas.

NURS 4000: Service Learning in Nursing

1-3 Credit Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

NURS 4400: Directed Study in Nursing

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics external to regular course offerings, which may include original research projects.

NURS 4402: Nursing Research for Evidence-based Practice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209 (may be taken concurrently for accelerated students) and STAT 1401

This course prepares students to understand the role of research in evidence-based practice in nursing and healthcare. Students learn to locate, appraise, and integrate reliable sources of evidence based on models of evidence-based practice as a scholarly endeavor.

NURS 4404: Pediatric Specialty Nursing

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313 and NURS 3303

This elective course is designed to provide opportunities for students to better understand the multiple specialty roles of pediatric nursing in the acute and ambulatory settings. Through didactic material and clinical experiences, the student has the opportunity to learn and demonstrate the clinical skills needed for providing safe, family centered care in a variety of pediatric specialty sites.

NURS 4412: Community Health Nursing

2 Class Hours 3 Laboratory Hours 5 Credit Hours

Prerequisite: NURS 3313 and NURS 3314 and NURS 3318

Application of the processes of nursing to commonly encountered health problems of families within the community.

NURS 4414:Complex Health Nursing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313, NURS 3314, NURS 3318 (or concurrent with accelerated program status). **Corequisite:** NURS 4412 (except for accelerated students).

This course applies the processes of nursing to individual clients and their families. The focus is on individual clients who are experiencing complex health problems.

NURS 4416:Leadership in Nursing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 4414

Designed to develop the leadership skills necessary for the beginning practice as a registered nurse. Focuses on the role of the nurse as part of the larger health care delivery system, with emphasis on the development of leadership and management skills useful in delivery of high quality, client focused care. Topics include client care/case management, budgetary management, development of teamwork, roles of health care providers and health care coordinators, integration of community health care systems, and health program development and evaluation.

NURS 4417:Advanced Clinical Practicum

0 Class Hours 12 Laboratory Hours 4 Credit Hours

Prerequisite: NURS 4412 and NURS 4414

Designed to provide a precepted clinical experience for the non-licensed and registered nurse student. Provides an opportunity to practice under the guidance and supervision of a preceptor, and assume the role of the professional nurse in a variety of settings. For the registered nurse student it provides an opportunity to practice in a new area or develop new clinical skills. The course focuses on the role of the professional nurse as care provider, communicator, teacher, leader and manager of care for a group of clients, and as a consumer of research that is applicable to individual clients and groups of clients. An appropriate clinical project demonstrates application of principles of nursing care and/or organizational development.

NURS 4421:Acute Patient Deterioration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or senior status with successful completion of NURS 3313 or Registered Nurse status.

This course is designed to enhance students' abilities to recognize and respond appropriately to common acute patient deterioration situations in a medical-surgical setting. Through delivery of didactic material, video vignettes, case studies, concept mapping, pattern recognition exercises, online web site tutorials, clinical narratives, simulation scenarios, and fieldwork, students will have the opportunity to learn and demonstrate the necessary actions to effectively and efficiently manage a crisis situation.

NURS 4422:Women and Health

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the instructor.

This course is designed to introduce students to a wide range of health issues affecting women across the life span. Women's health issues and problems as they are influenced by physiological, psychological, economic, cultural, emotional and social factors will be reviewed. The course will focus on topics such as the politics of women's health care, the reproductive system and its relation to the allopathic treatment of women, fertility control and reproductive alternatives. Issues of mental health, substance use and abuse, violence and aging will be examined.

NURS 4423:International Health Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of 60 hours or permission of the instructor.

Designed to serve a variety of students who are interested in international or global health policy issues. Beginning with an historical overview of global health, the course progresses through the developmental levels of countries and people, incorporating a macro and microanalysis, and considering cultural, social, economic, political, environmental, demographic, biological, technological and ethical issues which impact international health policy.

NURS 4424:Advances in Cardiovascular Nursing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313 or Registered Nurse status.

The purpose of the course is to provide students with an in depth knowledge of cardiovascular nursing, including, assessment, diagnostic tests, complications and medical and nursing management. Students will be given an opportunity to participate in selective observational and simulated experiences related to cardiovascular problems.

NURS 4425:Nursing as Caring

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior level or permission of the instructor.

Designed to explore the multiple perspectives of caring as the foundational science of nursing. Developing a personal meaning of caring will be emphasized as it relates to caring for self, caring for others, and caring as a member of the nursing profession.

NURS 4426:Nursing Practicum in Oaxaca

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Sophomore nursing status plus one Spanish course or fluency in Spanish from any other source.

This course is designed for nursing students or practicing nurses to work within the Oaxaca, Mexico Department of Public Health Clinics, live with a local family, receive daily Spanish conversational tutoring from faculty from the University of Oaxaca, and learn about Spanish culture.

NURS 4427:Laying the Foundations for Technological Competence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313

Designed to promote technological familiarity in nursing with emphasis placed on the nursing management of clients with specialized equipment. Detailed in-services will be conducted at selected agencies.

NURS 4428:Survivorship: The Cancer Model

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior status or permission of faculty.

This course will introduce students to the growing phenomenon of cancer survivorship. Issues related to medical care, quality of life, economics, political influences, genetic implications, access to health care and adaptation for the cancer survivor will be explored. This is an elective course, which augments and enhances the basic oncology concepts of the curriculum, and exposes the student to new ways of thinking about cancer survivors.

NURS 4429:Disaster/Emergency Preparedness

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313 or Registered Nurse status.

This course is designed to enhance emergency and disaster preparedness for students by providing knowledge and training in preparedness, mitigation, response, and recovery.

NURS 4430:Gerontological Nursing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3309

This course is designed to serve nursing students who are interested in the health care of the aging adult. The course, within the context of cultural perspectives, addresses the healthy aging process and health promotion strategies; pathophysiological aspects of aging and treatment regimes; and end of life issues.

NURS 4431:Psychoneuroimmunology: Mind Body Pathways

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level Nursing course or permission of the instructor.

This course takes a novel approach to the interdisciplinary field of psychoneuroimmunology (PNI) by exploring research and providing practical applications that illustrate how stress over time may impact psychological and physical well-being. Students will be exposed to current PNI literature, experientially explore effects of stress and coping strategies, and participate in a PNI laboratory assignment. Topics will include, but are not limited to: Mind-Body Pathways; Stress and Illness; Metabolism, Growth, and Stress; Sleep and Stress; Coping and Stress Management.

NURS 4432:Nursing in Faith Communities

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313 or Registered Nurse status.

This nursing elective provides a basic overview of the role and responsibilities of the nurse working in faith communities. The student will gain an understanding of meeting, managing, and promoting the health of persons in faith communities that address models of faith community nursing, diverse faith traditions, persons with special health care needs, legal and ethical issues, strategies and techniques to meet health and spiritual needs across the life span, and developing inter-collegial support systems.

NURS 4433:Issues of Nursing Practice in a Multicultural Setting: Abu Dhabi, United Arab Emirates

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209, NURS 3309, and BIOL 3317

This seminar course focuses on aspects of providing nursing care to patients in a multicultural setting. Extensive experiential activities are designed to provide the student with opportunities for analysis of nursing care by licensed nurses from diverse backgrounds to a multicultural patient population. The experiential activities will occur in acute and community care settings in Abu Dhabi, United Arab Emirates.

NURS 4434:Vulnerable Populations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This elective nursing course focuses on aspects of providing health-related care and programs to vulnerable or at-risk populations. The course is a lecture-seminar with fieldwork activities designed to provide the student with in-depth knowledge of a specific vulnerable population of the student's choice as well as a broad overview of many vulnerable populations.

NURS 4435:Nursing Practicum in Italy

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209

This study abroad course takes place in Montepulciano, Italy. Students learn about Italian culture and healthcare. Teaching and learning strategies may include observational experiences in acute care hospitals and outpatient settings, Italian conversational language lessons, and guided tours of cultural sites.

NURS 4436:Foundations for Perioperative Practice

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313

This course is designed to provide the student with a dynamic learning experience in a perioperative environment to enhance the knowledge, cognitive, and psychomotor skills to care for one or more patients undergoing operative or invasive procedures. The course addresses patient-centered care,

patient safety, physiologic responses, and behavioral responses of the surgical patient and family. This course involves classroom didactic and clinical hours (simulation, skills, and clinical experience) in the perioperative setting.

NURS 4438:Transforming Nursing Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3209

This course focuses on the use and understanding of nursing personal influence and power within organizational dynamics from environmental, psychological and relational perspectives. The dynamic relationship between nursing leadership, gender, power, knowledge, social forces and individual healthcare agency are explored. Students learn ways to create a shared collaborative nursing leadership vision within organizational culture.

NURS 4440:Palliative and End of Life Care

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: NURS 3313 or Registered Nurse status.

This course is an exploration of the physical, psychological, social, spiritual, and ethical issues surrounding care of persons in need of comfort, palliation, and excellent end-of-life care. The course employs the End of Life Nursing Education Consortium standards and guidelines as a framework for learning.

NURS 4490:Special Topics in Nursing

1-3 Credit Hours

Prerequisite: Permission of the instructor.

Selected special or currents topics of general interest to nursing faculty and students

Peace Studies

PAX 1102:Understanding Peace and Conflict

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores conceptions and practices of peace and justice. Examining peace and justice from western and non-western perspectives, and through a variety of disciplinary frameworks, this course focuses on the diverse forms of peace and justice, as well as the social and cultural contexts that have been shaped by these perspectives.

PAX 3100:Peace and Religion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or PAX 1102

This course examines selected world religions and peace through an interdisciplinary lens. Drawing primarily on religious and philosophical resources and other cultural texts, the course analyzes the conduct of religions in peace work and religious ideas about peace and peacebuilding.

PAX 3220:Peace and Film

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or PAX 1102

This course offers an interdisciplinary survey of international cinema's use of film in peace work and the depiction of peace in film.

PAX 3300:Peace and the Environment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or PAX 1102

This course is a survey of some of the major figures, traditions and texts on the relationship between peace and the environment from Western and non-Western perspectives. The course also poses important questions such as "How can we make peace with the environment?" "What are the most challenging threats to the environment today?" and "How can we live harmoniously with the non-human world?"

PAX 3600:Theories of Non-violence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or PAX 1102

This course is a survey of the major figures and texts on the topic of non-violence from both Western and non-Western perspectives.

PAX 3780:Trends in Peace Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

This course focuses on current issues, trends, and activism in the field of Peace Studies. The course is interdisciplinary and includes international content in English. Course may be repeated with a change in content.

PAX 4000:Peacebuilding Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or PAX 1102

This course covers the basic skills, tools, processes and frameworks required for effective peacebuilding across cultures. Students apply theoretical and practical knowledge of peace and peacebuilding to real life peacebuilding campaigns as they identify and execute fundamental techniques of non-violent activism.

PAX 4400:Directed Study in Peace Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Directed Study in Peace Studies. Covers special topics and seminars of an advanced nature and external to regular course offerings.

PAX 4490:Special Topics in Peace Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

A study of selected special topics of interest to faculty and students. Course may be repeated with a change in content.

PAX 4499:Seminar in Peace Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHIL 3120 and completion of 60 credit hours.

A seminar course for the Peace Studies Minor that integrates students' prior coursework with the field of peace studies. Working in a collaborative manner, students design their own capstone learning projects in consultation with faculty.

Perspectives

PERS 2700:Perspectives on the World of Work

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course will examine trends in the workplace as they pertain to today's undergraduates. Students will examine how "work" has evolved to become interdisciplinary, regionally and globally interconnected, technology-driven, and collaborative.

Philosophy

PHIL 2010:Introduction to Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is part of the General Education Program at Kennesaw State University. Drawing on texts from Western and non-Western philosophy, this course explores enduring questions such as the nature of the self, the existence of God, how we should live our lives, the nature of justice and a good society, the nature of reality, whether we are free or determined, and the meaning of life.

PHIL 2100:Values and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

The course is a philosophical examination of contemporary values and their place within society from a global perspective, focusing on issues of global inequality, cultural relativism, and the question of a global ethic.

PHIL 2110:Religions of the World

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

The course is a study of selected world religions with concentration on the origin and major periods of the conceptual, scriptural, and doctrinal development of these religions. Some topics include the nature and identity of religious experience, hermeneutics, mysticism, religious practice, and the place of religion in contemporary society.

PHIL 2500:Logic

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The course is an introduction to deductive logic with focus on the theoretical and practical aspects of categorical propositions and syllogisms, truth function logic, the method of natural deduction, and predicate logic.

PHIL 2700:Methods and Themes in Comparative Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101

This course focuses on differing methods and conceptions of philosophical thought and practice articulated primarily in Non-Western traditions. Students develop skills in close reading of texts, analyzing concepts orally and in writing, and understanding the significance of historical/social contexts in the formation of philosophical traditions. Themes may address topics such as conceptions of reality, self, and society. Philosophies considered may include East Asian, South Asian, Latin American, African, Middle Eastern, and Indigenous.

PHIL 3000:Ancient and Medieval Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of the topics, problems, and doctrines of ancient and medieval western philosophers including the pre-Socratics, Plato, Aristotle, Augustine, and Aquinas.

PHIL 3010:Modern Western Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of the topics, problems, and doctrines of modern western philosophers beginning with Descartes and concluding with Kant.

PHIL 3020:American Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of major topics and philosophers in the United States from the colonial period through the twentieth century including Jefferson, Emerson, Royce, DuBois, James, and Dewey.

PHIL 3030:Existentialism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

A study of Existentialism and Phenomenology including their historical roots in the nineteenth century, their major exponents of the late nineteenth and early twentieth centuries, and their impact on philosophy, literature, and other academic disciplines.

PHIL 3100:Ethics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of the major approaches to ethical thought and the applicability of these approaches to selected issues in the humanities, sciences, and professional areas including business, medicine, and education.

PHIL 3110:Social and Political Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a survey of the foundational figures and texts in the history of social and political philosophy, with focus on the concepts of freedom, obligation, authority, power, legitimacy, and social differences in the formulation of the purpose and foundation of political society.

PHIL 3120:Philosophies of Peace

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Philosophies of Peace introduces students to the texts, figures, movements, theories, and practices in the study of peace from western and non-western perspectives. Figures may include Tolstoy, Gandhi, and Thoreau. Selected topics include just war theory, positive and negative peace, nonviolence, and art and peace.

PHIL 3130:Feminist Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of the main currents of feminist philosophy, including criticisms of traditional philosophical paradigms and new frameworks for approaching the diversity of human experience.

PHIL 3200:Asian Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a survey of the major texts, figures, and schools in the philosophies of India, China, and Japan. Texts include the *Vedas*, *Upanishads*, *Analects*, and *Zhuangzi*. Major figures include Shankara, Patanjali, Confucius, Mencius, Dogen, and Nishida.

PHIL 3210:Latin American and Caribbean Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a survey of the central concepts, themes, and figures of Latin American and Caribbean philosophy. Some of these figures may include: Enrique Dussel, Lewis Gordon, Frantz Fanon, Sylvia Wynter, Maria Lugones, and Jose Marti.

PHIL 4000:Nineteenth Century Western Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a survey of post-Kantian thought in continental Europe and/or the Anglo-American world with focus on the concepts of critique, history, modernity, idealism, and the significance of the human sciences. Figures may include Mill, Hegel, and Marx.

PHIL 4030:Phenomenology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to a selection of major themes in phenomenology. Students reflect on the phenomenological method and critically examine the justifications phenomenologists give for their claims. The course also takes a comparative approach insofar as students will be encouraged to identify and explore parallels between different positions and practices (East and West) within a broadly speaking phenomenological framework.

PHIL 4200:Indian Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of important texts, schools, and figures of the Indian philosophical and cultural tradition. Texts include the *Vedsa*, *Upanishads*, *Bhagavad-Gita*, and *Yoga Sutras*. Figures include Buddha, Mahavira, Patanjali, Sankara, Ramakrishna, Aurobindo, and Gandhi.

PHIL 4210:Chinese Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a study of the representative thinkers and schools in the Chinese philosophical and cultural tradition starting in the classical period. Important figures include Confucius, Zhuangzi, Mencius, Sunzi, and Huananzi.

PHIL 4220:Japanese Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is a survey of Japanese philosophical thought from ancient times to the present, including its cultural, religious, ethical, and aesthetic dimensions. While providing a broad overview of the development of Shinto, Confucianism, and Buddhism in the Japanese context, the course also examines the contributions of contemporary Japanese thinkers to world thought.

PHIL 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair prior to registration.

Special topics of an advanced nature not in the regular course offerings.

PHIL 4450:Major Figures in Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: At least 60 earned credit hours

An in-depth examination of a major figure in western or non-western philosophy from the ancient to contemporary periods. Figures may include Plato, Aristotle, Confucius, Patanjali, Dogen, Spinoza, Irigaray, Heidegger, and James. Course may be repeated if the course content is different.

PHIL 4460:Major Themes in Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: At least 60 earned credit hours

An in-depth examination of a major theme in the history of philosophy. Topics may include time, justice, love and friendship, beauty, materialism, aesthetics, epistemology, and metaphysics.

PHIL 4490:Special Topics in Philosophy

1-3 Credit Hours

Prerequisite: ENGL 1102

A study of selected topics within philosophy.

PHIL 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Departmental Approval; PHIL 4450 or PHIL 4460

The course is a combined tutorial and seminar in which students research and write a senior thesis in addition to making a computer-based presentation in class.

Physics

PHYS 1111: Introductory Physics I

4 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MATH 1113 or MATH 1190

This is an introductory algebra and trigonometry-based course on classical mechanics, thermodynamics, and waves. The student will be able to apply Newton's laws and conservation of energy and momentum to various problems in kinematics and dynamics, use the law of universal gravitation to falling objects and orbital motion, describe simple harmonic motion, oscillations, and waves, and explain temperature, heat, and entropy.

PHYS 1111L: Introductory Physics Laboratory I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Corequisite: PHYS 1111

PHYS 1111L is an introductory laboratory for the trigonometry-based course on classical mechanics, thermodynamics, and waves. The student will be able to apply Newton's laws and conservation of energy and momentum to various problems in the laboratory, and perform measurements of simple harmonic motion, oscillations, waves, temperature, and basic fluid dynamics. The analysis of sources of error and formal propagation of uncertainties will also be developed.

PHYS 1112: Introductory Physics II

4 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (PHYS 1111 or PHYS 2211) and (MATH 1113 or MATH 1190)

This course is an introductory algebra and trigonometry-based course on electromagnetism, optics, and modern physics. The student will be able to apply the concepts of electric field and electric potential to problems in electrostatics and with electric currents, describe the motion of charged particles in magnetic fields and induction, explain the origin of electromagnetic waves and properties of light, and understand elementary principles of special relativity and quantum physics.

PHYS 1112L: Introductory Physics Laboratory II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Corequisite: PHYS 1112

PHYS 1112L is an introductory laboratory for the trigonometry-based course on electromagnetism, optics, and modern physics. The student will be able to apply the concepts of electric field and electric currents to problems in the laboratory, and perform measurements on magnetic fields and induction, optics, and elementary quantum physics phenomena. The analysis of sources of error and formal propagation of uncertainties will also be developed, along with graphical techniques and least-squares fits.

PHYS 2211:Principles of Physics I

4 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1190

This course is an introductory calculus-based course on classical mechanics, waves, and special relativity. The student will be able to apply Newton's laws and conservation of energy and momentum to various problems in kinematics and dynamics, use the law of universal gravitation to analyze the behavior of falling objects and objects in orbital motion, describe simple harmonic motion, oscillations, and waves, and explain the basic ideas of special relativity.

PHYS 2211L:Principles of Physics Laboratory I

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Corequisite: PHYS 2211

PHYS 2211L is an introductory laboratory for the calculus-based course on classical mechanics, and waves. The student will be able to apply Newton's laws and conservation of energy and momentum to various problems in the laboratory, and perform measurements of simple harmonic motion, oscillations, and waves. The analysis of sources of error and formal propagation of uncertainties will also be developed, as well as graphical techniques and the method of least-squares fits.

PHYS 2212:Principles of Physics II

4 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or better in MATH 2202 and PHYS 2211

This course is an introductory calculus-based course on electromagnetism, physical optics, and quantum physics. The student will be able to apply the concepts of electric field and electric potential to problems in electrostatics and with electric currents, describe the motion of charged particles in magnetic fields and induction, explain the origin of electromagnetic waves and properties of light, determine the behavior of light waves passing through single or multiple slits, and understand elementary principles of quantum physics.

PHYS 2212L:Principles of Physics Laboratory II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Corequisite: PHYS 2212

This is an introductory laboratory for the calculus-based course on electromagnetism, optics, and modern physics. The student will be able to apply the concepts of electric field and electric currents to problems in the laboratory, and perform measurements on magnetic fields and induction, optics, and elementary quantum physics phenomena. The analysis of sources of error and formal propagation of uncertainties will also be developed, along with graphical techniques and least-squares fits.

PHYS 2213:Principles of Physics III

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Grades of "C" or better in MATH 2202, and PHYS 2211

This is the third course in the 3-semester introductory sequence. Students will learn about pressures

produced by fluids and fluid flow. They will also learn the laws of thermodynamics and their applications to physical systems. Students will also examine the behavior of light interacting with lenses and mirrors, and will understand the behavior of sound in air.

PHYS 3011:Introduction to Heat, Light, Sound, and Fluid

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: Grades of "C" or higher in MATH 2202 and (PHYS 2211 or PHYS 1211K)

This course is a survey of topics that includes heat, geometric optics, fluid flow, and sound. Students will develop conceptual understandings and solve real-world problems using special functions. Students will apply laws of conservation to fluid flow and heat flow using mathematical analysis. Students will study the behavior of light in interaction with lenses and mirrors and discuss the physical description of sound and resonant systems using special functions.

PHYS 3110:Directed Methods

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Prerequisite: Grades of "C" or better in PHYS 2211 and PHYS 2211L and permission of instructor

This course will allow students to gain in-depth skills with a specific set of research methodologies through direct involvement in faculty-led research or scholarship. Course content and instructional methodologies will be identified by the faculty's needs and expectations.

PHYS 3210:Mechanics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or higher in MATH 2203, MATH 2306, PHYS 2211, PHYS 2211L, and PHYS 3260

This course is a survey of Newtonian, Lagrangian, and Hamiltonian Mechanics as well as mechanics of central force systems and oscillations. Students will learn how to apply Newtonian mechanics to dynamics of particles and systems of particles, and calculus of variations using Lagrange and Hamilton equations.

PHYS 3220:Electromagnetism 1

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or better in MATH 2203, MATH 2306, PHYS 2212 and PHYS 2212L

This course is a survey of fundamental principles of electricity and magnetism. Students will learn and solve problems in electrostatic fields, magnetic fields of steady currents, and time-dependent electromagnetic fields.

PHYS 3230:Optics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or better in PHYS 2212, PHYS 2212L

PHYS 3230 will present fundamentals and applications of geometric and physical optics. Students will study electromagnetic waves as formulated by Maxwell's equations. The laws of refraction of

reflection along with the theories of interference and diffraction will be presented. Students will also learn how some optical devices and lasers work.

PHYS 3260:Mathematical Physics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grade of 'C' or better in MATH 2202, and PHYS 2212

This course students will review mathematical techniques that are often used in upper-level physics courses. Students will learn to apply linear algebra, differential equations, vector calculus, Fourier series, Fourier transforms, Bessel functions, Legendre polynomials, and complex analysis to solve problems in physics.

PHYS 3410K:Electronics Laboratory

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Grades of "C" or better in PHYS 2212 and PHYS 2212L

Students will learn how to design, build, and analyze basic discrete and integrated circuits. They will also learn how to represent circuits and to predict the output of analog and digital circuits commonly found in physics laboratories.

PHYS 3500K:Computational Physics I

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or higher in PHYS 2212 and PHYS 2212L

This course utilizes introductory computer programming to analyze situations that are unique to physics. Students will enhance their computational thinking by using these methods and learn to obtain high accuracy approximate solutions to physics problems that are not solvable by analytic means. No prior programming knowledge will be assumed and the basics of one or more of the standard programming languages C/C++, Fortran, Python will be included in the course instruction.

PHYS 3710:Modern Physics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grade of "C" or higher in PHYS 2212 and PHYS 2212L

The topics covered in this course constitute the most fundamental background in modern physics. The main objective of this course is to provide the student with a basic understanding of the physical laws and phenomena that constitute the framework leading to quantum mechanics. Students will strengthen their knowledge of special relativity and explore aspects of the quantum theory of wave/particle duality and the probabilistic interpretation. Students will learn the Schrödinger's equation, its solutions for simple potentials, and properties of the one-electron atom. Students will also study applications of quantum principles to atomic, molecular and nuclear structures.

PHYS 3720L:Modern Physics Laboratory

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Concurrent:

PHYS 3710

This course complements the material in Modern Physics. Students will gather data in x-ray diffraction, photoelectric effect and beta decay. They will also estimate the e/m ratio and study the spectra of hydrogen, helium and mercury.

PHYS 3730:Relativity

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in PHYS 2212 and PHYS 2212L

PHYS 3730 is a thorough presentation of the principles of Special Relativity, and an introduction to the General Theory of Relativity. Students learn the underlying basis for the equations of relativity and also how to apply these equations to problem-solving. During this course, students will also learn specific mathematical methods that are particularly appropriate for this subject.

PHYS 4200:Mechanics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 3210

This course is a survey of more complex problems in mechanics. Student will study the motion of non-inertial frames, nonlinear and coupled oscillations as well as chaotic motion. Students will learn the dynamics of rigid bodies, continuous systems and fundamentals of fluid mechanics

PHYS 4210:Quantum Mechanics I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 3710, PHYS 3260, MATH 2203, and MATH 2306

This course presents a systematic development of quantum mechanical laws. Students will be introduced to Dirac's notation and will learn about the theory of angular momentum quantization and will use the operator formalism to solve the Schrödinger's equation in 3-dim for a particle in a central force field, and the simple harmonic oscillator. In addition, students will learn concepts of time-independent and time-dependent perturbation theory and scattering theory.

PHYS 4220:Electromagnetism II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 3220 and MATH 2306

This course completes the presentation of electromagnetic theory by building on the start contained in other courses. In this course students will learn about electric and magnetic fields in matter, they will study both the propagation and the generation of electromagnetic waves in space and time, and come to understand the connection between relativity and electromagnetic theory.

PHYS 4230:Thermal Physics

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: (PHYS 3011 or PHYS 2213) and PHYS 3710

This course is a study of the principles of thermal equilibrium, physical statistics, irreversible

processes, and the approach to equilibrium. Students will learn how to apply the statistical nature of thermodynamics using Boltzmann, Bose-Einstein, and Fermi-Dirac statistics

PHYS 4240:Solid State Physics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 3710

In this course students will apply quantum mechanics to solid materials. Students will study the binding forces and bonding theory in solids along with the mechanical, thermal, and electrical properties of solids. If time permits, an application to solid-state devices will also be presented.

PHYS 4260:Quantum Mechanics II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 4210

This course consists of a basic introduction to quantum field theory concepts for undergraduate students. The course is a continuation of Quantum Physics I PHYS4210. This course introduces techniques of field quantization and their applications. Students will learn about symmetries, conservation laws, and their role in field quantization. Students will study gauge theories and will learn quantization of the Electromagnetic, Klein-Gordon, and Dirac fields. Students will also revisit perturbation theory in the context of interacting quantum fields. Students will be exposed to applications of field theory techniques that are related to many interacting particle problems (e.g. condensed matter physics, particle physics, etc.) as time permits.

PHYS 4270K:Computational Physics II

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 3500K

This course is a continuation of Computational Physics I. Advanced mathematical methods and numerical algorithms are applied to the solution of a variety of problems in physics. Emphasis is on the mathematical methods used to model physical systems. Students will learn a variety of numerical methods which they will implement using computer programs, and they will also learn how to use modern technical computing software to model physical systems with both numeric and symbolic calculations.

PHYS 4400:Directed Study

1-4 Credit Hours

Prerequisite: Approval of the instructor, major area committee and department chair.
Special topics of an advanced nature that are not in the regular course offerings.

PHYS 4410K:Advanced Physics Laboratory

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: PHYS 3410K and PHYS 3720L

An introduction to instrument control, data acquisition, and data analysis of the type used in the

research labs. The student will then incorporate these techniques in the design of experiments important to classical and/or contemporary physics. This course will be writing intensive and will require extensive formal reports.

PHYS 4430:Capstone Physics Project

0-1 Class Hours 0-3 Laboratory Hours 1 Credit Hours

Prerequisite: Senior standing.

Students will complete a research project in physics or a related field during the last year on campus. The content and subject of this project will be negotiated between the student and the faculty supervisor of the project.

PHYS 4490:Special Topics in Physics

1-4 Credit Hours

Special topics selected by the department of interest to the Physics faculty and students.

Physic Education

PHED 3372:Physics Education Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Grades of "C" or better in (PHYS 2212 or PHYS 1112) and EDSM 2010

Students begin this course with a general investigation into various qualitative and quantitative research studies as well as key articles from physics education. Next, students will select a topic and conduct a literature review in that area. Finally, students will design, conduct and disseminate the results of a small scale study they conducted. The goal of this course is to help students learn how to conduct research in their own classroom to gauge instructional effectiveness.

PHED 3421:Classroom Interactions

2 Class Hours 1 Laboratory Hours 2 Credit Hours

Prerequisite: EDSM 1102 and PHYS 2212 and Admission to Teacher Education. **Corequisite:** SCED 3010, ITEC 3300, INED 3305, and INED 4435

This course examines teachers, students, content, and interactions that lead students to develop conceptual understandings of physics. Science teacher candidates design and implement instructional activities informed by their understanding of science learning, then assess student learning. This course includes a 29 hour field experience as introduction to the adolescent learner, the equity imperative and science education reform. This course is restricted to participants in the UTeach program.

PHED 4422:Project-based Instruction

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SCED 2421, Preservice Certification and Admission to Year-long Clinical Experience
Corequisite: INED 3305 and INED 4435

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based physics lessons appropriate to secondary learners. Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice, using videos, journals and discussions. This course is restricted to participants in the UTeach program. This course includes a 45-hour high school teaching experience.

PHED 4423:Pedagogical Content Knowledge for Physics

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: PHED 4422, INED 3305, and INED 4435 **Corequisite:** INED 3306, INED 4436

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based physics lessons appropriate to secondary learners. Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice, using videos, journals and discussions. This course is restricted to participants in the UTeach program.

Political Science and International Affairs

POLS 1101:American Government

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the institutions and processes of American government and Georgia State government. Global comparisons are made between the governments of the U.S. and other modern nation-states.

POLS 2212:State and Local Government

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course is a general survey of state and local government; recent and current trends.

POLS 2220:Careers in Political Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Careers in Political Science introduces students to the specialties within political science and focuses on career planning, outlines the academic emphases within the major and associated requirements, and explores public and private sector opportunities in the field of political science. Using a combination of lecture, readings, and guest lectures, students are exposed to information designed to assist in the clarification and pursuit of a career in politics, government, academia, and related fields. Particular emphasis is placed upon connecting students with on-campus resources designed to aid in course planning, internships, interviewing skills, and cultivation of job skills.

POLS 2230:Careers in International Affairs

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Declared International Affairs major

This course focuses on academic and career planning and development issues for International Affairs majors.

POLS 2238:Introduction to International Political Economy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2280 and ECON 1000

This course is an introduction to the exploration of the fundamental questions about government and policies, about market systems and about relations between the two.

POLS 2240:Introduction to Comparative Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

An introduction to the comparative approaches for the study of politics, focusing on patterns of development and change in contemporary political systems.

POLS 2250:Introduction to International Relations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course provides an introduction to the study of international relations. Sources of international order, conflict and war, determinants of foreign policy, global actors and the dynamics of political interaction between nation-states are examined.

POLS 2260:Current Political Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course exposes students to critical contemporary political and government related issues and provides some context and background. It ties the various issues to subfields of political science. Domestic-international linkage is emphasized.

POLS 2270:Political Ideologies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Emphasizes the political development and application of contemporary ideologies such as nationalism, capitalism, socialism, democracy, Marxism, conservatism, liberalism, feminism, communitarianism, fascism, liberation movements, and others.

POLS 2280:Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

An introduction to the empirical methods in social science research. It provides the student with a working knowledge of the design, implementation and evaluation of social science research.

POLS 2401:Global Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Global Issues is an introductory survey course designed to introduce the students to numerous current issues confronting the globe's policy-makers and populations. Specifically, the course provides an opportunity for diversity in the students' educational program and provides information that fosters global understanding and engagement.

POLS 3300:U.S. Constitution and Courts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course provides an overview of American law. The course covers the basic design and structures of the United States court system, trial and appellate legal process, and Constitutional law basics including governmental powers and civil rights and liberties.

POLS 3310:Foundations of Public Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 or permission of instructor.

This course serves as a general survey of public policy, beginning with efforts to define public policy through the most modern efforts to explain how public policy is made. Key themes include a comparative look at the development of public policy in democracies, including the stages of policymaking, punctuated equilibrium, issue networks, institutionalism, symbolism, and theories designed to explain the link between policy alternatives and the problems they are designed to solve.

POLS 3313:Public Policy Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Introduction to public policy analysis using data and methodological approaches as well as political and social inputs into the policy process. Analysis of policy outcomes.

POLS 3315:American Constitutional Law: Federalism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

The constitutional powers and limitations of national legislative, executive and judicial branches are

examined. The course includes analyses of the constitutional relationship of these political institutions to each other and to the states.

POLS 3320:Legal Research

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

An introduction to legal resources for law-related courses and to problems that demonstrate the effective utilization of legal research and reference tools in a manner designed to meet the needs of the student in both law and non-law fields. An understanding of legal rules is necessary for scientists, archaeologists and other professionals.

POLS 3328:African American Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course is an intensive introduction to ideologies, theories, and empirical research on the role of African Americans in the American political process. The course emphasizes black voting behavior, elite policymaking, public opinion, and the relationship of black information networks with mainstream media.

POLS 3340:Legal Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 3300

This course involves students in the processes of reasoning objectively and arguing persuasively within a socio-legal framework. Set against a background of formal and informal logic that guides reasoning in general, the course is primarily concerned with the reasoning underlying the construction of legal arguments from judicial, legislative, and scholarly points of view. Theoretical analysis is illustrated by investigating and writing about the law, with an emphasis on topics related to crime.

POLS 3343:Principles of Public Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

The methods and procedures of governmental administration and the control of public bureaucracies in democratic societies.

POLS 3350:American Foreign Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explores the conduct, substantive policy issues and problems associated with American foreign policy. The contemporary aspects and problems evolving out of and confronted by America's foreign policy are emphasized.

POLS 3356:U.S. Environmental Policy & Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Explores U.S. environmental policy and politics from the implicit early efforts (conservationist and preservationist) to the explicit policy that emerged out of postwar environmental movements and culminated in the 1970 with the creation of the US Environmental Protection Agency. Emphasis is on the politics of making and implementing of environmental policy and on the effectiveness of environmental protection.

POLS 3360:The United States Congress

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Presents an in-depth treatment of the origins, development, operation of the U.S. Senate and House of Representatives.

POLS 3370:The United States Presidency

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Examines the historical development of the presidency, the constitutional powers, the personalities, the roles and the relationship with other governmental entities.

POLS 3375:Political Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explores how individual-level psychological processes relate to aggregate-level political behavior. This course examines various aspects of human psychology including personality, motivation, information processing, emotions, and intergroup dynamics and consider their influence on political attitudes and decision making. The format of this class primarily reflects that of a seminar, as it devotes a significant amount of time to discussing and understanding current political events in the context of psychological phenomena. Critical thinking and a vibrant class discussion are essential to the structure of this course.

POLS 3380:Mass Media and Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Examines the role of the mass media in society. Emphasis is placed on the media's role in the social, legal and political processes in the United States, as well as other democratic and nondemocratic countries.

POLS 3385: Campaigns and Elections

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

An in-depth look at the process of selecting governmental leaders in the United States. Includes a segment on foreign elections.

POLS 3388: Lobbying and Interest Groups

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course familiarizes students with public sector lobbying and the role of interest groups in a democratic society. The processes, procedures, and techniques of lobbying government entities will be examined in depth, as well as the issue concerns and persuasion strategies of interest groups. The course will focus on applied learning, and will help prepare students for employment in professional political environments.

POLS 3390: Political Research On-Line

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course will help students become familiar with and adept at using on-line resources to perform political and governmental research. Students will be coached on using Internet tools and processes to improve their ability to find and use political and governmental information. Students will be assessed on their proficiency in on-line political research.

POLS 3394: Public Polling and Survey Techniques

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course introduces students to the techniques and uses of polls and surveys in political science and public policy. Students will learn the art of questionnaire design, questionnaire construction, sampling, data collection, coding, and analysis. Students will learn the basics of telephone survey techniques and focus group moderation for the purposes of collecting information. Class projects may include the construction and implementation of a survey, reading and critiquing existing surveys and questionnaires. Quantitative and qualitative approaches will be examined.

POLS 3396: Cooperative Study

1-3 Credit Hours

Prerequisite: POLS 1101; approval of the department chair and coordinator of cooperative education/internship (Career Services).

A supervised work experience program in business, industry or government. For sophomore, junior or senior level students who wish to obtain successive on the job experience in conjunction with their academic training.

POLS 3398: Internship

1-12 Credit Hours

Prerequisite: POLS 1101; approval of department chair and department internship coordinator. A supervised, credit-earning work experience with a previously approved business firm, private agency or government agency. Students must make application with the Internship Coordinator before the end of the semester prior to the semester in which the internship is planned.

POLS 3850: Introduction to Nongovernmental Organizations and Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Students critically examine types, challenges, strategies and activities of international nonprofit organizations (i.e., nongovernmental organizations). This course provides a forum for students to analyze NGOs and their relationships to governments, civil societies, donors, and other stakeholders. International development serves as the unifying theme of exploration.

Note: This course may be cross-listed with HS 3850.

POLS 4000: Practicum in Political Science and International Affairs

1-9 Credit Hours

Prerequisite: POLS 1101; 60 hours and permission of the instructor and department chair/program director.

A pre-approved service and/or experiential activity that occurs domestically or internationally and links meaningful community service or cultural immersion with academic learning, personal growth, and civic or global responsibility. The activity may be part of a preexisting volunteer program, NGO project, or international exchange or it may be individually designed with the instructor and approved by the chair. Students will be expected to keep a reflective journal and prepare a presentation that demonstrates learning objectives.

POLS 4100: Directed Applied Research

1-3 Credit Hours

Prerequisite: Consent of the instructor and department chair, and POLS 2280 or ACCT 2101 or ECON 2300.

This course will offer students an opportunity to investigate political science-oriented concepts and issues by participating in faculty-supervised research or scholarship. Course content and instructional methodologies will be determined by the student and faculty member. The amount of work expected per student will be based on the number of assigned credit hours.

POLS 4200: Homeland Security Administration

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the anatomy and response cycle of emergencies as they are managed by the Department of Homeland Security and the Federal Emergency Management Agency (FEMA). A

study of pertinent laws, executive orders, and preparedness and response activities at the national, state, and local levels enables each student to understand the nature of crisis management, appropriate responses, and the resulting impact on society.

POLS 4201:International Relations in the Americas

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2401

This course examines the relations among the countries of the Americas. It will explore the development of relations in the context of United States regional hegemony. The course will also examine current issues relevant to the region such as trade, drug trafficking, and migration.

POLS 4202:Politics of the U.S. Intelligence Community

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the history, structure, procedures, and functions of the US intelligence community and how all of these affect policy decisions. A particular emphasis is placed upon lessons learned from past historical failures of the US intelligence community.

POLS 4280:Advanced Research Methods and Data Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2280

This course teaches students advanced techniques in political and social research methods. The course covers both qualitative and quantitative methods, including hands-on training in computer-based analysis of large datasets and social science statistical methods.

POLS 4400:Directed Study

1-3 Credit Hours

Prerequisite: POLS 1101; approval of instructor, advisor and department chair prior to registration. Covers special topics and seminars external to regular course offerings.

POLS 4402:Political Parties

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Examines the nature, structure and functions of political parties in differing national cultural contexts with particular attention to the electoral activity of political parties in the United States.

POLS 4405:Comparative Legal Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

An examination of the ways in which the courts and the law in different countries affect public policy.

The source and methods utilized in different legal systems (both democratic and nondemocratic) as transforming agents of society and/or means for maintaining order within it are explored.

POLS 4410:American Legal System

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

POLS 4410 is designed to be a capstone to the political science legal studies concentration. Potential topics include the structure and function of the U.S. legal system, as well as criminal justice and alternative dispute resolution, judicial behavior, and the connection between law and society.

POLS 4411:Criminal Law

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

An examination of those areas in which the U.S. Constitution affects criminal justice. Emphasis on understanding the role of the Supreme Court of the United States in interpreting provisions of the Constitution that affect criminal justice. An attempt to understand the content of important decisions in this area as well as the reason given by the Court for decisions.

POLS 4412:Urban Affairs and Problems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Emphasis on the changing patterns of local and municipal governments and politics, impact of reapportionment and other problems generated by an urbanized society.

POLS 4415:Civil Liberties

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

An intensive study of the rights of Americans as guaranteed by the Constitution. The changing character of civil liberties problems in the United States will be stressed with attention given to the legal, historical and political context of the cases studied.

POLS 4416:Law and Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

POLS 4416 examines the relationship between law and gender in the United States, from the New Deal Era to the present day. Topics include how gender impacts the legal regulation of employment, education, reproduction, family life, and constitutional rights. Additionally, the course examines how women participate in the legal system as attorneys, judges, and mediators.

POLS 4420:Judicial Process

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 and POLS 3300

Courts and judges as agents in the political system; focus is on the judicial decision-making process, with attention to psychological and other variables in that process. Relation of judicial process to legislative, administrative and electoral processes emphasized.

POLS 4423:Great Political Thinkers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

A survey of classical, medieval, and modern political thinkers and their political thoughts. It discusses their impacts on the development of political processes and institutions.

POLS 4427:American Political Thought

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explores the diverse spectrum of American political thinking from the pre-revolutionary period to the present. Beginning with colonial discourse, this comprehensive review captures the depth and distinctiveness of American thought as expressed by and through the writings and actions of philosophers, politicians, radicals, and revolutionaries.

POLS 4428:Race, Gender, and the Politics of Difference

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines contemporary theories and politics of "difference," broadly understood as institutionalized hierarchies which marginalize and oppress certain groups and inhibit their political power. Students use race, gender, sexuality, and class as intersecting analytical frameworks to understand how multiple hierarchies of difference are structured and reproduced in the political process. Using critical race, feminist, queer, and political theory, students explore how political dynamics are shaped by difference.

POLS 4429:Legal Theory & Philosophy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines different theories of jurisprudence and great thinkers of law. Students will learn about legal procedures, the stages of a trial, the appeals process. Students will also analyze core legal concepts such as habeas corpus, judicial power, judicial review, originalism, stare decisis, positivism, consequentialism, strict construction, judicial activism, judicial nominalism, and judicial restraint.

POLS 4430:International Law and Organization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2250

This course examines the system of law governing relations between nation-states, and the roles and functions of international organizations. It explores the conventional international law in the areas of diplomacy, territorial questions and armed conflicts, as well as the developing regimes in trade and human rights. In addition, the course examines the structures and functions of some contemporary organizations in the security and economic areas and evaluates their performance and contribution.

POLS 4431:Politics of International Terrorism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

A study of the history and tactics of modern terrorism as well as efforts by modern government to counteract them.

POLS 4433:European Union Politics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explores the politics and policy-making processes of the European Union (EU). It is divided into three parts. The first part addresses the history of European integration and the major theories utilized to explain its origins, evolution and operation. The second part of the course examines the structures and processes that constitute the machinery of EU policymaking. The third part of the course examines the politics of policy-making in an array of issue areas, including the single market, the Euro, and external trade policy. We also examine various noneconomic policy areas such as foreign and security policy.

POLS 4435:Comparative Foreign Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

A study of governmental formulation and conduct of foreign policy, focusing on major foreign policy issues that dominate the contemporary world.

POLS 4436:Politics of Developing Areas

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2240 or POLS 2250

This course confronts the patterns of development of governmental institutions and use of political processes in meeting the problems of the emerging nations of Asia, Africa, Latin America and the Middle East.

POLS 4437:Global Security

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2250

This course explores the primary threats to international security in the 21st century and examines the response of national governments, the United Nations, and regional international organizations in meeting the challenges posed by those threats.

POLS 4438:International Political Economy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2250 and ECON 2105

In International Political Economy students learn about the political influences that shape the global economic system. Particular attention is devoted to the international organizations and trade agreements which shape the behavior of countries, corporations, and other participants in the global economy. Students also gain insights into the political and social consequences of the various economic approaches, and of the impacts of the global exchange of goods and financial assets on societies.

POLS 4439:Political Economy of Russia and Central Asia in Transition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the political and economic processes of reform in a variety of post-communist societies, including Russia, Kazakhstan, Ukraine, and Mongolia. A significant portion of the course involves a discussion of the impediments to development in either domain, as well as the significant barriers to economic competition in the world marketplace.

POLS 4440:Comparative Democratization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the process of democratization from a cross-national comparative perspective, with significant emphasis placed on the relationship between economic and political development. It begins with an examination of Western conceptions of democracy and the paths to democratic governance that Western states have taken. It then examines the concept of democracy through the lenses of non-Western cultures and values, and compares the distinct paths that states in each region of the world have taken toward democratization. In so doing, students critically analyze the merits of many controversial arguments put forth by political development scholars.

POLS 4444:Administrative Practices and Organization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Problems of personnel, finance, administrative law, and the growth and significance of administrative legislation and adjudication.

POLS 4446:Governmental Budgeting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course is designed to introduce undergraduate students to the role of budgeting in the governmental process. Budgetary actors, their motivations, their stakes and their behaviors are investigated. Students examine the legislative process of the budget and budgetary implementation. Students are introduced to cutback management, funding mandates and other current issues in governmental budgeting.

POLS 4448:Russian Politics and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the unique political traditions and governing institutions of Russia by examining the pre-communist, communist, and post-communist periods.

POLS 4449:Russian Foreign Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the international relations of Eurasian states, with particular reference to the Russian Federation's position in the global security, political, and economic realms, past and present. It covers both intra-Eurasian relations, as well as Russia's relations with the outside world. The course focuses upon major foreign policy issues that resonate within the region and beyond.

POLS 4450:Canada & North America

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101 or permission of the instructor.

This course focuses on the commonalities and differences in the political systems and public policies of Canada and the United States, with emphasis on Canada. Issues such as political culture and value systems, electoral politics, federalism and regionalism including the status of Quebec, public opinion, NAFTA, health care, immigration, political integration, the treatment of indigenous peoples, ethnic and gender representation are explored.

POLS 4451:Politics and Government in Post-Communist Europe

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explains the collapse of communist rule in the former Soviet Union and in Eastern Europe. It introduces the contemporary political institutions and processes of Russia, Ukraine, Belarus, Poland, Hungary, the Czech Republic and other key countries of the region. The course uses a comparative approach and develops country profiles to assess the varied degrees of success in achieving stable multiparty democracy. It examines the widely divergent strategies for meeting the

severe economic, environmental, social and political challenges confronting these countries during this difficult and volatile transitional era.

POLS 4452:Politics of East Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Due primarily to the rise of China, East Asia is rapidly becoming the region with the most influence on the world. This course introduces students to the political institutions and processes of China, Japan, and South Korea. Additional consideration is given to Hong Kong, Taiwan, Mongolia, and North Korea. We further examine the interrelations of these states through their political economy, security, and foreign policy.

POLS 4453:Latin America: Democracy and Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

Examines contemporary socio-political and economic characteristics as well as political institutions needed to understand the countries of Latin America. Two important themes (democracy building and development) will form the central focus of this course. Driving forces which facilitate and/or hinder the Latin American quest for political stability and economic development will also be examined. These include political parties, labor and peasant movements, economic elites, religious organizations and the military. The role and influence of the United States on Latin American politics will also be examined.

POLS 4454:Politics of the Middle East

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines contemporary socio-political and economic characteristics needed to understand the many countries of the Middle East/North Africa. The role of Islam, the Gulf war, the quest for development, the Palestine issue, and democracy versus authoritarianism are themes which will be covered in the course. In addition, a "country profile" approach will also be used. This course examines key countries and studies their political structures in detail.

POLS 4455:International Relations of Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course examines the international relations of African states within a conceptual context, with particular reference to Africa's position in the global political economy. It covers both intra-African relations and African relations with the outside world. The main purpose is an attempt to understand African external politics in order to deal with them, by analyzing past practices and projecting new trends.

POLS 4456:International Environmental Policy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

An examination of the basic elements of environmental policy making in the international arena. The course highlights current issues such as tropical rain forests, the "Global Commons" concept, biodiversity and endangered species. Policy approaches will draw upon examples from specific countries as well as policy developed within international organizations such as the United Nations.

POLS 4457:South Asian Politics: A Comparative Perspective

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 2240

This course is an overview of the main issues that overlay politics in Sri Lanka, Bangladesh, India, and Pakistan. It covers the common historical background and the development of political institutions across the region. The course highlights the main cleavages along which politics are organized and related political, social, and economic outcomes, including the political party system, economic development, social movements, and ethnic conflict.

POLS 4460:Politics of NATO

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

This course explores the past, present, and future of the Atlantic Alliance, tracing its development from its creation in 1949 to its post-Cold War expansion, to the Libya Conflict of 2011 to the ongoing Resolute Support Mission in Afghanistan. It also traces the internal politics of the NATO Alliance and the struggle to address the new security challenges of the 21st century from terrorism to nuclear proliferation, and from missile defense to humanitarian intervention.

POLS 4465:Mock Trial

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: POLS 1101

An examination of the American trial process. The overall purpose of the course is to enhance knowledge of the American adversarial process. Students who take the course may qualify for selection to teams for state, regional and national competition. Course may be taken three times for credit with permission of the instructor.

POLS 4466:Trial Procedure and Evidence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

POLS 4466 enhances students' knowledge of the adversary process. Students learn and apply the basics of trial procedure and evidence through an in-depth trial simulation. Students who complete this course are eligible to compete on KSU's intercollegiate mock trial team.

POLS 4470:Alternative Dispute Resolution

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101

A survey of the theory and methods of alternative dispute resolution and conflict management, with simulation in facilitation, mediation and negotiation. Basic skills will be taught.

POLS 4480:Practicum in Alternative Dispute Resolution

2 Class Hours 2 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 4470; permission of the program coordinator.

A capstone course designed to meet the Alternative Dispute Resolution Certificate Program by integrating the students' prior training in alternative dispute resolution in on-site applied settings and in on-campus seminars. Students will be given applied experiences in selected public or private organizations in the community or in campus-related programs to make use of their ADR training.

POLS 4490:Special Topics in Political Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: POLS 1101; approval of the instructor and department chair.

Selected special topics of interest to faculty and students.

POLS 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Satisfactory completion of 18 hours of upper-division major and/or concentration-related requirements; at least 9 hours of which must be political science courses meeting the upper-division major requirement.

This capstone course is designed to complete the major by integrating the problems, research and theories from the divergent specialty areas of the Political Science curriculum. The course will focus on both the theoretical and empirical concerns, as well as the interconnectedness among the various Political Science specialty areas.

Portuguese

PORT 1001:Introduction to Portuguese Language and Lusophone Cultures I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to Portuguese Language and Lusophone cultures, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Lusophone cultures. Not open to native speakers of Portuguese.

PORT 1002:Introduction to Portuguese Language and Lusophone Cultures II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Portuguese or PORT 1001 or the equivalent.

This course is an introduction to Portuguese language and Lusophone cultures, "Part II," stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Lusophone cultures. Not open to native speakers of Portuguese.

PORT 2001:Intermediate Portuguese Language and Lusophone Cultures I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Portuguese or PORT 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways. Not open to native speakers of Portuguese.

PORT 2002:Intermediate Portuguese Language and Lusophone Cultures II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Portuguese or PORT 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Not open to native speakers of Portuguese.

PORT 3200:Advanced Reading and Writing in Portuguese

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PORT 2002 or permission of the instructor.

This course emphasizes skill development and refinement in the areas of critical reading and writing in Portuguese. It is designed to give students extensive experience in reading and writing in Portuguese and on Lusophone Linguistic and Cultural issues.

PORT 3302:Conversation in Portuguese

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PORT 2002 or permission of the instructor.

This course emphasizes skill development and refinement in the areas of critical thinking through discussion in Portuguese. It is designed to give students experience in conversation in Portuguese and on Lusophone Linguistic and Cultural issues.

PORT 3304:Introduction to Lusophone Literatures and Cultures

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PORT 3200 or permission of the instructor.

This course introduces literary and cultural texts to the Advanced-level student in Portuguese. It is designed to give students extensive experience in reading and writing in Portuguese and on Lusophone Linguistics and Cultural issues as they appear in literature of the Lusophone world.

Psychology

PSYC 1101:Introduction to General Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to the theoretical and scientific study of behavior that emphasizes historical and current theories, methods, and research findings related to the influences of biological, cognitive, and social factors on behavior.

PSYC 2000:The Science of Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101 and declared minor in Psychology.

This course provides a survey of the skills needed to read, understand, and evaluate various claims related to the prediction and shaping of behavior. Topics include key components of scientific methodology; systematic comparison, contrast, and evaluation of sources of information about psychology; the roles of the American Psychological Association and Association for Psychological Science in research; techniques for exploring psychological topics; and application of research findings. Emphasis is placed on becoming critical consumers of research.

PSYC 2103:Introduction to Human Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This class introduces students to human development, from conception to death, emphasizing biological, cognitive, emotional, social and personality development. Scientific approaches for studying developmental psychology stress the importance of research methodology and research findings across the life-span. Theories of development and applications to real-world problems provide a context for understanding how humans change during the life-cycle.

PSYC 2210:Careers in Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101; Declared Psychology major

This course focuses on career planning and development issues for psychology majors. Using a combination of lecture, readings, and exercises, students will be exposed to information designed to assist in the clarification, selection, and pursuit of a career in psychology or a related field. Topics will include an overview of the undergraduate major in psychology, career options in psychology and related fields, preparation for employment with a bachelor's degree, preparing for and succeeding in graduate school, and applying for a job or to a graduate school.

PSYC 2258:Psychology of Adjustment

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The dynamics of normal and maladaptive adjustment, including the study of appropriate and

inappropriate reactions to frustration and stress; resolution of conflicts, fears and anxiety; building emotional stability and preventing mental illness.

PSYC 2300:Research Methods and Statistics

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: ENGL 1101, and (MATH 1101, MATH 1111, or MATH 1113) **Concurrent:** PSYC 2210

In this course, students are introduced to methods and statistics used in psychological research. Emphasis is placed on non-experimental methodologies such as observation, correlational research, surveys, archival research, and quasi-experimental and ex post facto designs. Topics include an introduction to the scientific method, an overview of experimental design, measurement and error, experimental control, descriptive statistics, statistical inference, scientific writing, and ethical issues in research. Laboratory work is designed to enable students to apply course topics.

PSYC 2500:Research Methods in Psychological Science

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101 **Concurrent:** PSYC 2210

In this course, students are introduced to psychological research methods, exploration and critical evaluation of professional literature, and scientific writing. Topics include the scientific method, ethical issues in research, and research design. Coverage encompasses descriptive, correlational, quasi-experimental, and experimental research and data collection strategies. Laboratory work is designed to enable students to apply course topics.

PSYC 3000:Statistical Applications in Psychological Science

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1101; Any 1000-level MATH course. **Concurrent:** PSYC 2210

In this course, students are introduced to descriptive and inferential statistical techniques for analyzing psychological research. Coverage encompasses selection of appropriate statistics for differing research questions and designs, and the interpretation and reporting of results. Laboratory work is designed to enable students to apply course topics.

PSYC 3010:Educational Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course is designed to examine the application of psychological concepts, principles, theories, and methodologies related to issues of teaching and learning in the school setting. This course also examines how individuals develop and learn, with particular emphasis upon the classroom environment, including motivation, student interests, creating a healthy learning climate, language development, testing, and individual differences.

PSYC 3130:Psychology of Aging

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course provides both a general introduction to the multi-disciplinary field of gerontology and a specific emphasis on those aspects of aging behavior that are of particular interest to psychologists, namely, learning and memory, intellectual behaviors, attitudes, personality, psychopathology, perception, and clinical intervention. The primary purpose of the course is to provide a theoretical and empirical basis for understanding the aging process. Aging from a multicultural perspective is considered.

PSYC 3205:Psychology of Child Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

In this course students examine the developmental time period from conception through early adolescence with a major focus on ages 36 months to 15 years. The course covers the biological, emotional, social, language, and motor changes children experience as they develop. Using contemporary theory, research, and methods relevant to developmental psychology, the class emphasizes individual differences, the influence and importance of the environment and relationships for healthy development, and the sociocultural context of development.

PSYC 3273:Forensic Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course provides the student with an overview of the theories that support the utilization of psychology in the legal system and how those theories and psychological research are applied in law enforcement, the courts, and in corrections. Although the focus in the course is primarily on the United States, some attention is devoted to an international view of forensic psychology.

PSYC 3301:Experimental Design and Analysis

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: PSYC 2210 and PSYC 2300

In this course, students examine experimental designs used in psychological research. Topics include the selection of appropriate experimental designs for different research questions, hypothesis testing, independent-groups and within-subjects designs, complex designs, data collection strategies, statistical analysis using t-tests and analysis of variance, the interpretation of results, and the writing of research reports. Laboratory work is designed to enable students to apply course topics.

PSYC 3310:Psychopharmacology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course

This course addresses how psychoactive drugs work in the central nervous system to affect behavior.

Stimulants, depressants, hallucinogens, analgesics and psychotropic drugs will be discussed primarily in terms of their pharmacological action in the brain. Substance abuse and treatment disorders will be addressed from a biological perspective.

PSYC 3315:Psychology of Infant Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course examines the developmental time period from conception up to 36 months. The course covers the biological, emotional, social, language, and motor changes infants progress through during the first three years of life. Using contemporary theory, research, and methods relevant to developmental psychology, the class emphasizes the uniqueness of each infant and toddler, the influence and importance of environment and relationships for healthy development, and the sociocultural context of development.

PSYC 3320:Leadership and Group Dynamics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

Theory and application of psychological knowledge regarding group formation, group process, and leadership. Issues are examined in the context of ongoing intensive group discussion. Experiential activities will be included in the course to provide students with opportunities to apply and observe the group process.

PSYC 3325:Social Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500

This course examines how people's thoughts, feelings, and behaviors are shaped by the social environment. Topics include interpersonal attraction, affiliation, aggression, prejudice, conformity, attitudes, persuasion, social cognition, altruism, self-presentation, social perception, and group behavior. Experimental research findings are emphasized.

PSYC 3335:Theories of Personality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500

This course surveys classic and current theories of personality that represent several of the major perspectives in psychology (e.g., psychoanalytic, biological, developmental, behavioral, humanistic, cognitive, sociocultural), highlighting the contributions of each theory to personality description, assessment, research, therapy, and application.

PSYC 3340:The Psychology of Family Interaction: A Developmental Perspective

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

An in-depth coverage of the psychological dynamics involved in parent/child relationships. A developmental approach will be employed to explore the changing needs and demands of the child and the parents as each progress in their own development. Current research and theory concerning parenting techniques, the psychological atmosphere of the home and the interaction of the child's temperament with the parents will be discussed. Contemporary family issues such as daycare, domestic violence, single parenting and children with special needs will be presented.

PSYC 3355:Cross-Cultural Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

An overview of the study and application of psychological principles from a global cultural perspective, including Asian, African, European and North and South American cultures. Topics such as cognition, attitude structure and change, interpersonal communication, personality and mental health will be discussed in the contexts of different cultural orientations in the world, and both between and within-group differences and similarities will be discussed.

PSYC 3365:Human Sexuality

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

An examination of the biological, personal, interpersonal and social aspects of human sexual behavior. Topics include: sexual values, sex and gender, sex and love, sexual behavior over the life span, reproduction, sex and health, sexual dysfunction and treatment, and social problems/issues related to sexual behavior.

PSYC 3370:Industrial-Organizational Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

The application of research and psychological principles to human behavior in the workplace. Course topics will include the psychological aspects of employment selection and assessment, performance appraisal, employee and work team development, reorganization and downsizing, work stress, employee violence, work/family conflict, and the changing nature of the workplace.

PSYC 3375:Psychology of Career Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

The application of research and psychological principles with respect to how people formulate and make career decisions. The course explores career development across the life-span, focusing on theories of career decision making, work adjustment, adult career crises and transitions, and career counseling interview and assessment techniques.

PSYC 3380:Principles of Psychological Testing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500

This course introduces the principles that underlie the development, use, and interpretation of psychological assessment tools. Topics include test construction, survey development, scaling, norming, assessment interpretation issues and psychological assessment applications in industrial, vocational, clinical, and research settings. Additionally, psychological assessment is discussed in terms of social, legal, and ethical concerns.

PSYC 3385:Ethnic Minority Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course will provide an overview of the study and application of ethnic minority psychology. We will examine concepts and issues that pertain to ethnic minority groups in the United States, particularly the following four groups: African Americans, Asian Americans, Hispanic Americans, and Native Americans. Topics for discussions are: multicultural theory and research, history, cultural values, identity, developmental and family issues, mental health and other relevant issues that are pertinent to the experiences of the above-mentioned four ethnic minority groups in the United States. The course will be conducted with a combination of lectures, class discussion, guest speakers, group activities, student presentations, videos, etc.

PSYC 3395:Psychology of Prejudice and Privilege

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course focuses on psychological theory and research as mechanisms of understanding prejudice and discrimination. Close attention is paid to how privilege (e.g., racial, gender, sexuality, and/or class privilege) can influence how we perceive ourselves and others within and outside our social/cultural group(s). Coursework may involve readings from both psychology and literature, viewing of relevant films, and participation in experiential learning exercises and dialogues.

PSYC 3398:Internship in Psychology

1 Class Hours (4-20) Laboratory Hours (2-6) Credit Hours

Prerequisite: PSYC 2500, PSYC 3000, declared major in psychology, permission of the instructor, and any two additional PSYC 3000 level courses.

The Internship in Psychology course is a structured off-campus experience in a supervised setting that is chosen in relation to the student's major and interests. Practical experience is combined with a research approach that investigates issues relevant to the internship. Students meet with the internship coordinator to develop an appropriate plan that leads to the writing of a research-oriented paper or research project, a required part of the internship.

PSYC 3410:Health Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

Through the use of theoretical and empirical approaches, this course focuses on a biopsychological approach to health psychology including psychological and physiological aspects of U.S. and global health issues. Students will develop knowledge of the psychological aspects of a variety of health topics. Potential topics include body management systems, disease prevention, chronic illnesses, pain, stress and coping, substance abuse, nutrition, and alternative models of health behavior change.

PSYC 3425:Psychology of Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course examines gender issues from a psychological perspective. Topics include the social construction of gender, gender and personality development, sex role socialization, and a critical examination of the research on gender differences. The ways in which gender intersects with other aspects of identity (e.g., race, ethnicity, class, sexual orientation) are examined. Scientific research findings are emphasized.

PSYC 3505:The Psychology of the Emerging Adult: Late Adolescence through Early Adulthood

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101

This course focuses on development from late adolescence through early adulthood and the unique physiological, cognitive, and psychosocial issues occurring during this transitional period that are not well explained by traditional conceptualizations of standard development periods. Familiarity with the major physical transitions associated with pubescence, the cognitive changes necessary for the abstract reasoning associated with this time period, and the increased complexities inherent in the social experience typical of this age group.

PSYC 3510:Psychoneuroimmunology: Mind Body Pathways

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course or permission of the instructor

This course takes a novel approach to the interdisciplinary field of psychoneuroimmunology (PNI) by exploring research and providing practical applications that illustrate how stress over time may impact psychological and physical well-being. Students will be exposed to current PNI literature, experientially explore effects of stress and coping strategies, and participate in a PNI laboratory assignment. Topics will include, but are not limited to: Mind-Body Pathways; Stress and Illness; Metabolism, Growth, and Stress; Sleep and Stress; Coping and Stress Management.

PSYC 3775:The Psychology of Religion: An Empirical Approach

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (PSYC 1101 or SOCI 1101) and any 3000-level PSYC course

This course focuses on the study of the influence of religion and spirituality on human behavior. Empirical findings are presented and discussed that allow for the critical evaluation of the role of religion and spirituality in understanding human motivation, cognition, behavior, and individual differences in personality. Students will examine findings on contemporary psychobiological thinking and religion; varieties of religious experience; religion/spirituality in childhood; and the role of religion in morality, psychopathology, and coping.

PSYC 4100:Advanced Laboratory in Psychological Science

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500 and PSYC 3000

In this course, students integrate research design and statistical concepts to develop an understanding of how research is conducted within the field of psychological science. Students learn the importance of the scientific method and gain hands-on experience with conducting and analyzing scientific research. Topics include selecting appropriate experimental and non-experimental designs to address different research questions, selecting appropriate statistical analyses based on the chosen research design, and practicing written and oral communication of the scientific process. These concepts will be applied to areas within psychological science with a focus on cognitive psychology, learning and behavior, perception, and physiological psychology.

PSYC 4345:Learning and Behavior

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500 and PSYC 3000

This course offers an introduction to the various learning mechanisms that influence the establishment, maintenance, and/or reduction of behaviors in both humans and nonhuman animals. The course focuses on linking processes and theories of classical and operant conditioning to everyday behaviors.

PSYC 4400:Directed Study in Psychology

0 Class Hours 3-9 Laboratory Hours 1-3 Credit Hours

Prerequisite: PSYC 2500; approval of the instructor and department chair; minimum of 3.0 GPA.

This course is offered to students interested in investigating special topics and seminars external to regular course offerings. May include original research projects. A maximum of 6 hours of PSYC 4400 may be used towards satisfying the upper division major requirements. A maximum of 9 hours of PSYC 4400 is permitted overall.

PSYC 4410:Physiological Psychology

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500

This course addresses the relationship between our underlying physiological systems and behavior. The topics investigated include neural communication, the anatomy of the nervous system, and the biological bases of sleep, reproductive behavior, stress, learning and memory, and mental disorders.

PSYC 4415: Perception

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500

The subject matter of the course includes the physical properties of stimuli, the psychological methods of investigating perception, the anatomy and physiology of the sense organs, the central processing of stimuli, and demonstrations or laboratory investigations of sensory phenomena.

PSYC 4420: Ethics and Professional Issues in Applied Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course

A critical analysis of professional issues and the ethical standards in the practice of psychology. Traditional and emerging practice areas will be discussed. Topics such as licensure, prescription drug privileges, managed care, and treatment efficacy research will be explored. Ethical standards and decision-making will be studied in the context of professional practice.

PSYC 4430: Abnormal Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course

This course provides an overview of the major categories of mental disorders, including current research on their classification, features, etiology, course, and treatment. Students also examine diagnostic processes and ethics as related to research and treatment with clinical populations.

PSYC 4440: Clinical and Counseling Psychology: Science and Practice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course

The course provides an introduction to the science and practice of clinical and counseling psychology from integrated perspectives. History, major theories, and scientific underpinnings are covered, as well as current developments in practice and research. Major topics include research design, theoretical models, diagnostic and assessment methods, psychotherapeutic interventions, treatment effectiveness, specialization, and training. The course may emphasize clinical or counseling psychology at the discretion of the instructor.

PSYC 4445: History and Systems of Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500 and PSYC 3000

This course examines the historical development of psychology, focusing on antecedents in

philosophy and physiology, major early systems, major historical figures, and the historical/cultural context in which the field developed.

PSYC 4455:Cognitive Psychology

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 2500 and PSYC 3000

In this course, students are introduced to the experimental investigation of complex cognitive processes. Topics include attention, perception, memory, concept formation, reasoning, problem solving, and decision-making. Assignments are designed to enable students to relate course material to their own experiences.

PSYC 4460:Child Psychopathology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 1101 and Completion of one of the following Developmental Area courses: PSYC 2103, PSYC 3130, PSYC 3205, or PSYC 3315

This course is an advanced level course focusing on the etiology, classification, assessment, and treatment of a select group of child and adolescent psychological disorders that are most frequently encountered by professionals in mental health and educational settings. The primary task of the child clinician is to identify and treat those children who suffer from emotional and/or behavioral problems that significantly interfere with their development and functioning.

PSYC 4475:Psychology of Workplace Motivation and Leadership

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One 3000-level psychology course

This course examines topics of motivation and leadership in the workplace by addressing theoretical formulations, major research findings and real-world applications. Issues related to these topics will include gender, corporate culture, job attitudes, cross-cultural influences and organizational reward systems.

PSYC 4490:Special Topics in Psychology

Variable 1-3 Credit Hours

Prerequisite: One 3000-level psychology course

This course will address selected topics of special interest to faculty and students.

PSYC 4498:Capstone Internship in Psychology

1 Class Hours (8-20) Laboratory Hours (3-6) Credit Hours

Prerequisite: PSYC 4100 and one course from each of the four psychology course areas (any one of the four psychology course areas can be completed concurrently with PSYC 4498), and permission of the instructor (via departmental application). **Concurrent:**

Any one of the four psychology course areas can be completed concurrently with PSYC 4498.

The Capstone Internship in Psychology course is a structured off-campus experience in a supervised

setting that is chosen in relation to the student's major and interests. Practical experience is combined with a research approach that investigates issues relevant to the internship. Students meet with the internship coordinator to develop an appropriate plan that leads to writing and presenting a research-oriented paper that integrates prior academic experiences in psychology, a requirement of the capstone experience.

PSYC 4499:Capstone Seminar in Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 4100 and one course from each of the four psychology course areas (any one of the four psychology course areas can be completed concurrently with PSYC 4499) **Concurrent:**

Any one of the four psychology course areas can be completed concurrently with PSYC 4499.

This capstone course is designed to complete the major by integrating prior academic experiences in psychology. The course focuses on applying academic knowledge and skills to the examination of contemporary issues, problems, research, and theories from the different areas identified in the psychology curriculum. Discussions include potential interconnections among areas of study, as well as connections between academic knowledge and skills to employment opportunities. Connections made are communicated through scientific writing and oral presentation(s).

PSYC 4500:Capstone Integrative Project

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PSYC 4100, a minimum institutional GPA of 3.00, and permission of the instructor (via departmental application). One course from each of the psychology curriculum areas must be completed (one grouping may be taken concurrently with PSYC 4500).

This capstone course is designed to complete the major by integrating the student's prior academic experiences in psychology. The course focuses on applying research methods and statistics knowledge through project-based experiences. Discussion focuses on both substantive and methodological concerns, as well as developing and applying research skills. Results of project-based experiences are communicated through scientific writing and presentation(s).

Real Estate

RE 3400:Principles of Real Estate

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Students are introduced to the principles of real estate analysis and utilization. Subjects include the nature of real property; the legal instruments involved in real property transactions; market analysis and the determinants of real estate values; the appraisal process; investment and financial analysis; and the public policy aspects of real estate planning and utilization.

RE 4500:Real Estate Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: FIN 3100, 60 credit hours with a minimum GPA of 2.0, and Admission to the Coles College Undergraduate Professional Program or student in a Coles College Partner Program that includes this course.

Examines the principles and procedures of real estate appraisal, the transfer process for property, and financing methods for residential and commercial real estate. Studies the income and cost of developing and managing real property and analyzes real estate as an investment.

Religious Studies

RELS 1102:Introduction to Religion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an interdisciplinary overview of religion in human culture. Students explore how religion provides meaning and structure to human life by addressing basic questions about the body, nature, spirit, community, and time, and how religious concepts and practices are expressed in texts, ceremonies, rituals, and festivals. The course provides a survey of the conceptual and experiential aspects of religion that enables students to engage in informed, critical, and dispassionate conversations about religion.

RELS 3200:Religion and Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or RELS 1102

This course focuses on gender as a category of analysis for the study of religion, the relationship between religion and sexuality, and how religion informs gender and how gender informs religion. Some topics covered may include the construction of male and female roles in religious texts and rituals, feminist critique of religion and/or the uses and abuses of gendered imagery and language in religious discourse.

RELS 3300:Ethical Issues in Religion

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or RELS 1102

This interdisciplinary course introduces students to the ways that various religious traditions address moral questions and issues. The students study how ethical moral responses are both researched by scholars of religion and addressed by practitioners of specific religious traditions.

RELS 3500:Religion and Popular Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 and RELS 1102

This course is an interdisciplinary course that examines the ways that religious themes, symbols, icons, artifacts and language are used in expressions of popular culture(s) and also how religion is

itself influenced by popular culture(s). The interaction between religion and pop culture(s) is studied from a critical perspective with a range of diverse cultural and religious examples across both media platforms and forms of pop culture(s).

RELS 3780:Trends in Religious Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or RELS 1102

This course focuses on current issues and trends in the field of Religious Studies. This course is interdisciplinary includes international content in English. Notes: Course may be repeated with a change in content.

Notes: Course may be repeated with a change in content.

RELS 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of instructor and department chair prior to registration.

In this course the selected topic of an advanced nature not serve by the existing curriculum is investigated by a student working with a supervising faculty member.

RELS 4490:Special Topics in Religious Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102 or RELS 1102

This course is a study of selected special topics of interest to faculty and students.

Notes: This course may be repeated with a change in content.

Renewable Energy Engineering Technology

REET 1000:Energy Fundamentals

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to energy fundamentals. The course starts by looking at our societies current energy generation practices and gives a brief overview of the wide range of sustainable alternatives available now and in the future. Topics discussed include energy, power, and efficiency. In addition to power generation, the students will also explore topics of energy storage and transmission. The course will culminate in freshmen design experience that will tie all the concepts together.

REET 2020:Energy Conversion

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: PHYS 1112 or PHYS 2212

This course starts with the introduction to both traditional and renewable energy conversion.

Emphasis is placed on renewable energy, especially solar and wind. Fundamentals of electro-mechanical energy conversion follows. Theory of operation and operating characteristics of transformers, DC machines, AC induction machines, and synchronous machines are thoroughly covered. Emphasis is placed on three-phase synchronous and induction machines.

REET 3030:Energy Storage Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: REET 1000, and CHEM 1211

This course will explore the wide range of technology available for energy storage and its impact on the energy industry. Technology will include batteries, super capacitors, flywheels, pumped storage, and hydrogen among others. Special attention will be provided to advanced battery technologies and their use in energy systems.

REET 3550:Introduction to Alternate Energy

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: (PHYS 2211 and PHYS 2211L) or (PHYS 1111 andPHYS 1111L)

This course will introduce students to alternative forms of energy generation, storage and delivery. The class will explore present day technologies using oil, coal and gas then moving into emerging technologies such as solar, wind, waves, tidal, geothermal, etc. Storage technologies such as batteries and flywheels will also be addressed along with fuel cell delivery techniques. The course will end by exploring more futuristic possibilities such as space-based solar and high-altitude wind generation.

REET 4040:Senior Design Proposal

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: Senior Standing

In this course, students will conduct initial research into an energy topic of interest to them with the goal of determining their senior design project. A complete proposal document is required to satisfy completion of this course.

REET 4050:Senior Design Project

1 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Senior Standing

In this capstone course, the students implement the design and development of an approved project in Renewable Energy Engineering. The project which will involve the design, fabrication, and formal demonstration of hardware and software functionality is completed during the course of the semester. A formal project report and oral presentation are required.

REET 4100:Solar Photovoltaics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: PHYS 1112 or PHYS 2212

The course starts with studying the semiconductor principles of photovoltaic power generation and provides an overview of current materials used in cell fabrication. The organization of solar cells within panel structures are then addressed, as well as the necessary technologies for interfacing these panels to off-grid and on-grid power distribution networks. The course finishes up with a design project where students will be asked to estimate energy needs and create an appropriate system for meeting these needs.

REET 4110:Solar Thermal Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3401

The course starts with a review of basic definitions of thermodynamics and Thermodynamic cycles. General concepts of thermal radiation, radiation properties, radiation intensity and heat exchange between surfaces will be studied. This section includes solar radiation, solar geometry and solar angles, and solar irradiation. Then solar thermal conversion, collectors, central receivers, distributed receivers, heliostat fields, thermal storage systems and hybrid plants and applications of technology in residential and industrial market will be covered. The course finishes up with a design and energy simulation of solar thermal systems.

REET 4200:Wind Power Generation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: REET 2020 and MET 3101

The course consists of two parts, mechanical and electrical. The mechanical part starts with a review of fluid mechanics. Then the principles of wind power, maximum power, actual power and force analysis on the blades, mean wind and energy velocities will be studied. The Magnus Effect, the lift force the drag force and different wind turbine designs will be covered. The electrical part: designing a wind turbine system that can generate power with high efficiency requires a thorough understanding of the principles of aerodynamics of the rotor system. The influence of the number of blades, the tilt angle of the blades on the power output of the wind turbine will be covered. The current-voltage characteristic of wind turbine with constant rotation speed and constant wind speed will be studied. The construction, operation and speed control of three-phase induction motors will be thoroughly covered. The course ends up with a design project of a wind turbine.

REET 4210:Oceanic and Hydropower Generation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: MET 3401 and MET 3101

General concepts of thermodynamic processes and cycles will be reviewed in the beginning. The course has two different sections. In the first section, "Energy from the Ocean" will be studied. In this section, first "Ocean Temperature Energy Conversion" (OTEC) will be discussed and then "Open and closed OTEC cycles" will be covered. This section will be continued with ocean waves, wave motion, energy and power from waves, wave-energy conversion by floats, different types of "wave machines" and tidal systems. In the second section, other "Hydropower generation methods" will be addressed. In this section, different types of hydropower generation such as hydroelectric dams, run-of-the-river hydroelectricity, and pumped-storage hydroelectricity will be discussed. This section

includes different types of impulse and reaction water turbines. The course concludes with a design project of a "Hydropower Generation System".

REET 4500:Environmental Aspects of Power Generation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: REET 1000, Junior Standing

This course examines the environmental impact of electrical power generation. The environmental impact of traditional power generation schemes such as coal, hydroelectric, nuclear, and fossil fuels will be examined along with the impact, as well as the potential impact, of Renewable Energy sources such as solar, wind, oceanic and fuel cells.

REET 4510:Sustainable Transportation Systems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ECET 2300, and CHEM 1211

This course will explore the pros and cons of alternative transportation systems including electric, hybrid, compressed air, and fuel cell vehicles. Topics explored include infrastructure requirements, overall system efficiencies, and hidden costs of implementation. The course finishes up with a focused transportation system analysis.

Russian

RUSS 1001:Introduction to Russian Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to the Russian language and culture, stressing progressive acquisition of effective communications skills in both the written and spoken language and an understanding of the practices and products of the culture being studied.

Notes: Not open to native speakers of Russian.

RUSS 1002:Introduction to Russian Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: RUSS 1001

Introduction to Russian language and culture, part II, stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Russian culture. Not open to native speakers of Russian.

RUSS 2001:Intermediate Russian Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: RUSS 1002

Builds upon acquisition of communication skills begun in high school. The student will continue to

develop proficiency in listening, speaking, reading and writing and learn to communicate in culturally appropriate ways. Not open to native speakers of Russian.

RUSS 2002:Intermediate Russian Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: RUSS 2001

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Not open to native speakers of Russian.

RUSS 2290:Special Topics in Russian

1-3 Class Hours 0 Laboratory Hours 1-3 Credit Hours

Prerequisite: Permission of the department chair.

This course covers special topics of interest at the beginning or intermediate levels. It is primarily for studies abroad in Russian language and culture.

Science

SCI 1101:Science, Society, and the Environment I

3 Class Hours 2 Laboratory Hours 4 Credit Hours

This course is the first in a two part sequence that fulfills the general education science requirement. Using the context of environmental issues it introduces students to the basic nature of matter, energy, and living systems and to the nature of science. Emphasis is placed on making decisions about scientific issues. Science 1101 is not designed for science majors and is not a prerequisite for introductory courses in biology, chemistry, or physics.

SCI 1102:Science, Society and the Environment II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SCI 1101 or its equivalent.

This course is the second in a two part sequence that fulfills the general education science requirement. Using the context of environmental issues, it introduces students to the basic skills and scientific understandings needed by educated citizens to make informed decisions about scientific issues.

SCI 3360:Earth Science

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: A grade of 'C' or better in any two 1000-level or 2000-level science courses

An introduction to basic earth science concepts and methodology (including geology, meteorology, and oceanography) will be covered. Special emphasis will be placed on dynamic Earth processes (plate tectonics, earthquakes, volcanism, climate, etc.) and their effects on the structure and composition of the landforms, oceans, atmosphere, and organisms. The lab component includes

hands-on evaluation of a collection of Igneous, Metamorphic and Sedimentary rocks, topographic map analyses, spectral imaging and remote sensing, and modeling weather related phenomena.

SCI 3365:Earth Watch: Examining Global Environmental Issues

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SCI 1102

An examination of the integrative nature of environmental sciences; emphasis on human interactions with world environments. Discussions will focus on case studies, environmental problem-solving, and the development of a personal ecological ethic. Ecological principles of population, community, ecosystem and biosphere will be integrated in the case studies.

SCI 4700L:Applied Environmental Studies

2 Class Hours 4 Laboratory Hours 3 Credit Hours

Prerequisite: SCI 1101 and SCI 1102

An interdisciplinary, field-based, capstone course. Students will apply skills learned in previous courses in a team-based project. The experience will be documented in an environmental assessment report describing the land and aquatic systems in terms of use, conditions (chemical, biological, physical), economic impact, environmental policy and management.

SCM 2000:Culture and Success in Science and Mathematics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A declared major within the College of Science and Mathematics.

In this course, students will develop the skills and mindset of a scientist or mathematician through metacognitive exploration, reflection, and guided inquiry. In addition, students will apply appropriate social methods to build scientific and mathematical collaborations, emulating the modern STEM enterprise. Finally, students will learn to value an inclusive STEM environment and support measures that expand access for all students to STEM.

Science Education

EDSM 2010:Knowing and Learning in Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDSM 1102

Students construct a model of knowing and learning that will guide their future classroom practice. Issues of what it means to learn and know science, how what we know changes and develops, and the standards used to measure what science is known inform this model. Students will also explore the connections between kinds of assessments and theories of knowing. This course is restricted to participants in the UTeach program.

SCED 2421:Classroom Interactions

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: EDSM 2010 and Admission to Teacher Education

This course examines teachers, students, content, and interactions that lead students who are culturally, linguistically, or academically diverse to develop conceptual understandings of science. Science teacher candidates design and implement instructional activities informed by their understanding of science learning, then assess student learning of science. This course includes a 45 hour middle school science teaching experience as introduction to the adolescent learner, the equity imperative and science education reform.

SCED 3010:Perspectives in Teaching Science

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: EDSM 2010 and Admission to Teacher Education

Students apply and extend their understanding of knowing and learning in science by surveying the history of science and science education reform for application to teaching practice. Students deepen their ability to relate practices of modern science to their developing perspective on learning and teaching science as they analyze curricula and design reform-based science instruction. Lab component includes tutoring of secondary or tertiary science learners.

SCED 4000:Service Learning in Science Education

1-3 Credit Hours

Prerequisite: 60 hours and permission of the instructor and department chair/program director.

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

SCED 4414:Methods of Teaching Secondary Science I

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: EDUC 2130 and admission to Teacher Education Program: Obtain Pre-Service Certificate **Corequisite:** EDSM 4414

This course examines teachers, students, content, and interactions that lead students to develop conceptual understandings of science. Science teacher candidates design and implement instructional activities informed by understanding of science learning, then assess student learning. The co-requisite for this course is a 60 hour field experience as introduction to the adolescent learner, the equity imperative and science education reform.

SCED 4416:Methods of Teaching Secondary Science II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SCED 4414 **Corequisite:** EDSM 4416 and EDSM 3360

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based science lessons appropriate to secondary learners.

Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice using videos, journals, and discussions. This course is restricted to participants in the secondary science education program.

SCED 4498: Internship in Teaching Science (6-12)

0 Class Hours 36 Laboratory Hours 12 Credit Hours

Prerequisite: Provisional teaching license issued by State of Georgia, full-time employment teaching science, and permission of science education advisor.

Student Teaching experience in science for provisionally certified teachers. Supervision will be in collaboration with a mentor-teacher in the local school and a specialist in science education. This internship will automatically substitute for SCED 4475. Proof of professional liability insurance is required. Student is responsible for their own school placement.

SCED 4650: Yearlong Clinical Experience I

0 Class Hours 12 Laboratory Hours 3 Credit Hours

Prerequisite: SCED 4416, Admission to Yearlong Clinical Experience and Pre-Service Certificate

Corequisite: EDUC 4610, EDSM 4418, INED 3306, and INED 4436

This course is the first semester of an intensive and extensive co-teaching yearlong clinical experience in science education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement.

Notes: This course includes regularly scheduled professional seminars. Proof of liability insurance is required.

SCED 4660: Yearlong Clinical Experience II

0 Class Hours 36 Laboratory Hours 9 Credit Hours

Prerequisite: SCED 4650, eligibility to take GACE **Corequisite:** INED 3306, INED 4436

This course is an intensive and extensive co-teaching clinical experience in science education. Under the guidance of a collaborating teacher and university supervisor and working in a diverse environment that includes students with exceptionalities and English learners, candidates practice professional competencies that impact student achievement.

Secondary Education

EDSM 3000K: Survey of Life Science

3 Class Hours 2 Laboratory Hours 4 Credit Hours

Prerequisite: Any science course from General Education Core Curriculum Area D2

This course is a survey of life science topics designed to support middle grades education candidates in achieving the NSTA Middle Grades Content Standards for Life Science. Inquiry laboratory

experiences are included in the course. This course is not appropriate for majors other than middle grades education with a science concentration.

EDSM 4416:Teaching Secondary Math & Science Practicum II

0 Class Hours 4 Laboratory Hours 1 Credit Hours

Prerequisite: EDSM 4414 ***Concurrent:***

SCED 4416 or MAED 4416

Under the guidance of a collaborating teaching and a university instructor, the teacher candidate will complete a field experience in a designated school. This experience requires working in a co-teaching environment with diverse learners and focuses on supporting learners' mathematical or scientific discourse. Proof of professional liability insurance and a pre-service teaching certificate is required.

SED 2220:Internship

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the director of the Center for Education Placement and Partnerships and advisor.

A practicum in a classroom during which the student will be actively involved in the teaching-learning process under the guidance of a professional teacher.

SED 3398:Internship

1-12 Credit Hours

Prerequisite: Permission of the director of the Center for Education Placements and Partnerships and advisor.

A supervised teaching experience for teachers seeking certification renewal credit.

SED 4400:Directed Study

1-3 Credit Hours

Prerequisite: Permission of the instructor and department chair prior to registration.

A concentrated investigation of a particular aspect of education as a topic within a teaching field concentration or degree major. The content of the directed study will be determined jointly by the instructor and the student.

SED 4490:Special Topics in Education

1-3 Credit Hours

Prerequisite: Permission of the instructor and department chair.

Selected special topics of interest to faculty and students.

Sociology

SOCI 1101:Introduction to Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an overview of sociology, which emphasizes the social nature of human behavior, including an introduction to culture, social structure, socialization, deviance, stratification, family, gender, religion, demography, and complex organization.

SOCI 2000:Introduction to Gender Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in ENGL 1101

This course examines the ways that women's and men's gender roles are shaped by social interaction. Using materials and learning approaches from multiple disciplines, students will explore questions about how individual and group expectations about gender behavior are created and sustained.

SOCI 2210:Professional Development for Sociology Students

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 1101

This course is designed to introduce students to research skills, concepts, and strategies essential for academic success in an undergraduate Sociology program. Included is an introduction to the ethical questions of social science methods and theory. The primary objective of this course is to assist students in being successful student sociologists and their transition to professionally relevant fields and/or graduate school.

SOCI 2251:Social Problems

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course includes an overview of current social problems facing American society with attention to developing insights into the conceptual analysis of meaningful solutions.

SOCI 3300:Foundations of Social Theory

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 1101

This course surveys the historical development of social theory. It emphasizes the major theories and theoreticians of sociology and their importance for understanding contemporary sociology.

SOCI 3303:Statistics for Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces a wide range of statistical concepts and techniques used in sociology. Students learn how to summarize data, generalize from a sample to a population, and determine the

relationships between two or more variables. The course emphasizes the application, interpretation, and critique of various statistical techniques, including means tests, cross tabulation, ANOVA, correlation, and regression. Students use computer software to analyze sociological data.

SOCI 3304:Social Organization

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is an introduction to large scale social organizations, with an emphasis on bureaucracy. It examines both the formal and informal aspects of bureaucracy, including topics ranging from power and authority, to centralization and decentralization, red tape, and professionalism.

SOCI 3305:Research Methods in Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 1101 and SOCI 2210

This course provides an introduction to concepts and techniques used in social science research. Students acquire a foundational understanding of research methods in sociology, learn how to link theory and data, and examine the ethical considerations required for social research.

Notes: Offered as an online course.

SOCI 3310:Introduction to Gerontology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to the multi-disciplinary field of gerontology which provides an overview of the sociology, psychology, and the physiology of aging. Students will consider research and theories of aging as well as participate in field trip experiences in gerontological settings. A key goal is to develop a more realistic perception of the aging process.

SOCI 3314:Race and Ethnicity

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course addresses the social construction of racial and ethnic categories and inequalities between various groups. Topics of study include immigration, prejudice, discrimination, segregation, and racism, as well as ways to address current problems of racial and ethnic conflict.

SOCI 3315:Transnational Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Conventional sociological perspectives address social life and social interaction through the context of the nation-state system. The increasing movement of ideas, capital, and people across national borders challenges the ability of conventional sociological approaches to assess the social transformation occurring within these trans-local and transcontinental contexts. Through a systematic examination of comparative and transnational sociological approaches, the course provides students with the critical skills to understand and address the complexity of the contemporary global world.

SOCI 3320:Exploring the Aging Network

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This class explores the range of services, programs, and employment opportunities related to aging. The goal is to familiarize students with the gerontology field so that they can develop interests, contacts, resources, and knowledge about the aging network to use both personally and professionally. Students further develop and refine academic plans, career paths, and personal and professional goals related to working with older adults.

SOCI 3324:Sociology of Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines gender as a major organizing principle in society and explores the ways in which gender intersects with other types of social differentiation including race, sexuality, social class, and nationality. The course also explores the implications of changes in family, economic, and political structures related to gender and their impact on equality in contemporary society.

SOCI 3333:Technology and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the interaction between scientific and technological development and social development, social structure and social issues.

SOCI 3334:Religion and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines religion as a social institution in historical, comparative, and contemporary terms. World religions and new religious movements are studied as sociocultural processes involving the need to know, to deal with problems and to adapt to change.

SOCI 3344:Biotechnology and Social Change

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is designed to examine the multiple manifestations of biotechnology and their social change implications. The course locates the biotechnology revolution in the broader socio-historical context within which it is emerging. The course focuses on the examination of the ways in which the development and deployment of biotechnology are transforming the cultural and institutional character of modern societies. This includes an examination of social, ethical/moral and legal/legislative issues and their impact on policy.

SOCI 3350:Intersections of Race, Class, and Gender

3 Class Hours 0 Laboratory Hours 3 Credit Hours

The primary objective of this course is to understand how race, class, and gender intersect to fundamentally shape social interaction, conditions, and institutions in American society. This course

examines the ways in which race, class, and gender are socially constructed and how they interconnect to create and maintain systems of privilege and inequality.

SOCI 3354:Social Class and Mobility

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines social class and hierarchy in America. Issues in empowerment, equality, styles of life, and the nature of poverty and social mobility will be highlighted.

SOCI 3360:Sociology of Violence

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the root causes and consequences of violent behavior exhibited by individuals in our society. Topics covered include the social and cultural contexts that breed violence, society's influence on specific crimes, and human social behavior.

SOCI 3364:Sociology of the Family

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course presents the institution of the family in historical and cross-cultural perspective, including an analysis of the American family system, its social structure and alteration, and its relation to other social institutions.

SOCI 3374:Sociology of Work and Occupations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the world of work, the changing nature of work, and the implications of these changes for individuals and families. Key themes include theories of work and labor process, intersections of race, ethnicity, and gender, job satisfaction and motivation, labor unions, technological and global challenges, and the structure of professions and occupations.

SOCI 3380:Society, Community, & Health

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course explores the connections between society, communities, and the health of individuals. Topics include sociological approaches to global health inequalities, tensions between medicine and culture and the ethics of public health and biomedical research. Students critically analyze major issues of health and illness confronting selected subpopulations. The course introduces students to selected theoretical frameworks that address social determinants of health.

SOCI 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education (CAPS) and department chair. A supervised work experience program for a minimum of two academic semesters at a previously approved site in business, industry, government or private agency. For sophomore, junior or senior

level students who wish to obtain successive on the job experience in conjunction with their academic training.

SOCI 3398: Internship

1-12 Laboratory Hours 1-12 Credit Hours

Prerequisite: 90 hours

This course is a structured off-campus experience in a supervised setting which is related to the student's major and career interests. Practical experience is combined with scholarly research in the topical area of the internship. Sites must be approved in advance of the semester of the internship. A departmental internship orientation session is scheduled at least once a semester.

SOCI 4200: Drugs, Alcohol, and Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines drug use and abuse, including alcohol. Specifically, it examines how different drugs affect the body, theories of drug use, the sociological context of drug use, the impact of drug use and abuse on society, drug treatment, drug use policies, drugs and the law, and the extent of drug use in our society and globally.

SOCI 4400: Directed Study in Sociology

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Covers special topics and seminars external to regular course offerings. May include original research projects and practicum experiences.

SOCI 4410: Advanced Qualitative Research Methods in Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 3305

Students learn the qualitative strategies used in sociology research methods, including ethnographic techniques applied in sociology, participant observation, in-depth interviewing, and content analysis. Students learn ethical implications of social research, and how to design a qualitative research study, develop interview guides, construct content analysis templates, conduct observations on the field, conduct interviews, code data, and analyze qualitative data. Students learn skills using software applications for data management and analysis and write a research proposal.

SOCI 4420: Advanced Quantitative Research Methods in Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 3305

This course examines the concepts and techniques used for quantitative research in sociology. Students learn to interpret, calculate, and critique the basic statistics used in quantitative methods in sociology. Students acquire the skills to use Statistical Package for Social Sciences (SPSS) computer

program for managing and analyzing numerical data. Students learn the ethical implications of social science research and write a research proposal for a quantitative study.

SOCI 4432:Criminology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 1101 or CRJU 1101

This course examines the nature and extent of crime and the causes and correlates of criminal behavior. This course also examines the major criminological theories, including biological, psychological, sociological, rational choice, and developmental theories.

SOCI 4434:Emerging Social Issues in Africa

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines current social, political and economic trends and issues in Africa, including a critical analysis of transformations in contemporary African societies. This course frames Africa's sociopolitical history around the notion of "contact" in the eras of pre-European "contact", European "contact and domination" (trade, slavery, colonialism, and imperialism), and post-colonial political formations, including military adventurism. This course also examines social movements and other forms of resistance, including an examination of Pan-Africanism and anti-colonial nationalisms.

SOCI 4435:Sociology of South Asia

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines social change and development in the South Asian societies through a historically informed analysis of social institutions in the region. Some of the key themes explored include contested histories, identity politics and nationalism, democratization, growth, poverty, and inequality. The course includes case studies from Afghanistan, Bangladesh, Bhutan, Nepal, Pakistan, and Sri Lanka, but its main focus is on India.

SOCI 4442:Deviance and Social Control

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course presents a survey of the nature, causes, and consequences of deviant behavior. It provides an analysis of the problems of definition, identification, explanation, and social reaction to violations of institutional expectations and presents techniques of social control.

SOCI 4443:Medical Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an analysis of (1) the social processes affecting conditions of health and illness and (2) the cluster of social relationships and organizations that comprise the social institution of health. It emphasizes the sociocultural factors that influence definitions of health and illness, causes, preventions and treatments, cross-cultural and interclass comparisons of stress, delivery of health care, mental illness, death and dying, and health care professionals.

SOCI 4444:Social Movements and Social Change

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines theories and empirical research on social movements, why, how, and when they emerge, develop, and effect social change, along with technological, economic, organizational, and political forces for social change.

SOCI 4445:Sociology of Mental Illness

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course examines the social aspects of mental illness. Topics include the history of mental illness, definitions, diagnoses, treatment institutions, and social factors that influence severity and course. The course will consider the characterization of "mental disorders" as "diseases," the applicability of a resocialization model, and ethical issues.

SOCI 4464:Population and Demography

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is concerned with virtually everything that influences, or can be influenced, by population size, distribution, processes, structure, or characteristics. This course addresses the causes and consequences of population change, such as fertility, mortality, migration, technology, lifestyle and culture. Changes in population affect health and illness, the environment and its capacity, urbanization, family and household formation, aging, the labor force, poverty, government policies and business marketing strategies.

SOCI 4490:Special Topics in Sociology

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of interest to faculty and students.

SOCI 4499:Senior Seminar in Sociology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SOCI 3300 and SOCI 3305

This capstone course is designed to complete the major by integrating theory, research, and sociological issues from divergent specialty areas of the sociology curriculum. Students synthesize the material from previous sociology courses, highlighting the central importance of the intersecting impact of race, class, and gender. Students submit and present a final report.

Software Engineering

SWE 3313:Introduction to Software Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (CSE 1322 and CSE 1322L)

This course provides an overview of the software engineering discipline, introducing the student to the fundamental principles and processes of software engineering. This course highlights the need for an engineering approach (both personal and team) to software with understanding of the activities performed at each stage in the development cycle. In this course, students will perform requirements analysis, design, implementation and testing. The course presents software development processes at the various degrees of granularity. Students will become aware of libraries of standards (IEEE, ACM, SWEBOK, etc.).

SWE 3623:Software Systems Requirements

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: (SWE 3313 and (CSE 2300 or MATH 2345)) or CPE 3000

This course covers engineering activities related to the definition and representation of software system requirements. Topics include the elicitation, analysis, specification and validation of software system requirements. Emphasis is on the application of processes and techniques of requirements engineering. Projects focus on current analysis methods and supporting tools for specification, organization, change management, traceability, prototyping, and validating requirements.

SWE 3633:Software Architecture and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313 or CPE 3000

This course covers the fundamental design principles and strategy for software architecture and design. Architectural styles, quality attributes, design notations and documents, reference architecture, domain specific architecture in architecture process and pattern-oriented design, component-oriented design, and interface design in detailed design process are discussed.

SWE 3643:Software Testing & Quality Assurance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313 or CPE 3000

This course will show how software quality assurance and configuration management are performed and how software process improvement is maintained in order to assure the highest possible quality. Topics include software process metrics and their use in QA, testing approaches, methods and techniques. Development of QA plans, reviews, inspections and audits will be done.

SWE 3683:Embedded Systems Analysis and Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

The analysis and design course focuses on using modern methods, techniques, and tools for specification and design of embedded systems. Topics include analytical methods such as RMA, development methods such as HOOD, and notations like UML, Petri-nets, etc. are covered. Performance evaluation based on modeling and simulation techniques is also covered. This is a project based course.

SWE 4324:User-Centered Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313

This course presents the fundamental knowledge, processes, skills, and practices leading to the user-centered design (UCD) of (computer) systems and applications. UCD is not limited to the design of software systems but applies to the plan and development of any objects. This course will define the important concepts in UCD, cognition and its relationship with UCD, and two views of human-centered design. Usability engineering techniques are covered leading to improved system effectiveness in supporting use of computers, user learning, diversity in interaction styles, and individual versus group work.

SWE 4490:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course offers advanced topics in Software Engineering selected by the Department. The course covers special topics at the senior level that are not covered in the regular course offerings.

SWE 4633:Cloud Software Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

This course discusses the fundamental concepts and tools of cloud-based application development. Students will learn how to develop apps on top of the cloud with an understanding of various contemporary cloud providers (e.g., Amazon Web Services, Google Cloud, or Microsoft Azure). Students will do hands-on projects focused on building cloud-run applications using their platform of choice.

SWE 4663:Software Project Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313 and STAT 2332

This course focuses on organizational and technical roles in software engineering. Models of software engineering life cycle, software maturity framework, strategies of implementing software, software process assessment, project planning principles and tools, software configuration management, managing software quality and usability, leadership principles and legal issues will be covered. A required team project combines technical and managerial techniques of software design and development.

SWE 4713:SWE Application Domain

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3623 **Concurrent:**

SWE 3643 and SWE 4663

Students work as part of a team to develop solutions to problems posed by either internal or external customers in a specific SWE Application Domain. The purpose of the course is for students to gain an

understanding of the selected application domain and its use of software to support functions/operations within that domain. Application domain selection is done every term from a variety of industrial domains including Security, Gaming, Automotive, Aerospace, Military, Finance and Commerce. Problems may require considerable software development or evolution and maintenance of existing software products. The course culminates with the completion and presentation of an increment of the project solution.

SWE 4723:Undergraduate Research Methods

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313 or instructor permission.

High Impact Practices (HIPs) are recognized as an important tool that can transform the educational experience of a student. Among the different possible HIPs, undergraduate research is an important activity that allows for training creativity and critical thinking. Being a good researcher depends on many factors and requires discipline and the knowledge of the research process and related methodologies. This course will provide a comprehensive introduction to give students the tools to create a research project, including research methodologies and foundational research theories and protocols. This course will also teach students how to write the results of their research and how to present them.

SWE 4724:Software Engineering Capstone Project

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: SWE 3623 **Concurrent:**

SWE 3643 and SWE 4663

This is the capstone project course and constitutes a major design experience. The course focuses on a team project comprising the development of a realistic software system during all phases of the software development life cycle. Topics include software project management, design, verification and validation, development, evolution and quality assurance. Current methods, techniques, and software tools are utilized in the development of the project.

SWE 4743:Object-Oriented Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: CS 3305

This course involves engineering activities related to the analysis, design, and implementation of object-oriented software systems. Topics include modeling foundations, requirements specification and documentation, design concepts and strategies, and OOAD methodologies with an emphasis on UML. The course includes a major project utilizing current analysis and design methods and tools implemented in a contemporary IDE.

SWE 4783:User Interaction Engineering

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SWE 3313 or SWE 4324

This course covers the basic theories and principles applied to the design of human-computer

interfaces. It introduces students to the basic concepts used in designing interactions. It will cover the basic theory and methods that exist in the field. Case studies are used throughout the readings to exemplify the methods presented and to lend a context to the issues discussed. This course will focus on the semiotic engineering approach to human-computer interaction, in which the interaction is analyzed in terms of communication between the designers of the artifact and the user.

SWE 4803:Independent Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Program Coordinator and Faculty approval

Independent study/project under the direction of a member of the graduate faculty. Course description will vary.

Spanish

SPAN 1001:Introduction To Spanish Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Introduction to Spanish language and culture, stressing progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Hispanic cultures.

Notes: Not open to native speakers of Spanish.

SPAN 1002:Introduction to Spanish Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Spanish or SPAN 1001 or the equivalent.

Introduction to Spanish language and culture, "Part II," stressing continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Hispanic cultures. Not open to native speakers of Spanish.

SPAN 2001:Intermediate Spanish Language and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Two years of high school Spanish or SPAN 1002 or the equivalent.

The student will continue to develop proficiency in listening, speaking, reading, and writing, and learn to communicate in culturally appropriate ways. Not open to native speakers of Spanish.

SPAN 2002:Intermediate Spanish Language and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Three years of high school Spanish or SPAN 2001 or the equivalent.

Students continue to increase linguistic and cultural proficiency through the use of a variety of materials and activities. Course will serve as a transition between intermediate and upper-level courses in Spanish. Not open to native speakers of Spanish.

SPAN 2003:Accelerated Intermediate Spanish Language and Culture

6 Class Hours 0 Laboratory Hours 6 Credit Hours

Prerequisite: Two years of high school Spanish or SPAN 1002

This accelerated intermediate level course in Spanish language and culture covers in one semester the materials presented in SPAN 2001 and SPAN 2002. The course stresses continued, progressive acquisition of effective communication skills in both the written and spoken language and an understanding of the practices and products of Hispanic cultures.

SPAN 2032:Spanish for Health Professionals

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course focuses on Spanish language and culture appropriate for working with Hispanics in the medical field.

SPAN 2034:Spanish for Criminal Justice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: One year of high school Spanish or SPAN 1001 or the equivalent.

This course focuses on Spanish language and culture appropriate for working in the fields of Criminal Justice with Hispanics. Not open to native speakers of Spanish.

SPAN 2290:Special Topics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Permission of the department chair.

Special topics of interest at the intermediate level. Used primarily for studies abroad.

SPAN 3200:Critical Reading and Applied Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 2002 or SPAN 2003

This course emphasizes skill development and refinement in the areas of critical reading and writing in Spanish. Designed to give students extensive experience in reading and writing in Spanish, the course focuses on the relationship between writing and reading, and on ways to improve one through the other.

SPAN 3302:Practical Conversation

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 2002 or SPAN 2003

This course stresses expansion of effective listening comprehension and speaking skills through culturally and linguistically appropriate activities.

SPAN 3303:Grammar and Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 2002 or SPAN 2003

This course provides a general review of grammar through composition and other written activities, such as summaries, correspondence, descriptions, narration, literary analysis, and other rhetorical and culturally appropriate forms.

SPAN 3304:Literature and Culture I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3200 and SPAN 3303

An introduction to Hispanic literature and culture from the Middle Ages to 1850. Students examine literary and artistic movements as well as cultural issues of the period. Readings and discussion in Spanish.

SPAN 3305:Literature and Culture II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3200 and SPAN 3303

An introduction to Hispanic literature and culture from 1850 to the present. Students examine literary and artistic movements as well as cultural issues of the period. Readings and discussion in Spanish.

SPAN 3390:Upper-division Study Abroad in Spanish

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Junior or Senior status and permission of the department chair.

This course fulfills the study abroad requirement for the B.A. in Modern Language & Culture with a primary language of Spanish. The content of the course may vary depending on available course offerings in the foreign institution. The chair of the Department of Foreign Languages must preapprove the use of this course as partial fulfillment of the requirements for the degree in Modern Language & Culture.

SPAN 3398:Internship

1-9 Credit Hours

Prerequisite: SPAN 3302 and SPAN 3303 or permission of the instructor.

Supervised, credit earning work experience of one semester requiring use of Spanish in the work place. Prior approval by department coordinator and internship supervisor is required. No more than three semester hours may be applied toward the major.

SPAN 4400:Directed Study

1-3 Credit Hours

Prerequisite: SPAN 3302 and SPAN 3303 or permission of the instructor.

Covers special topics and seminars external to course offerings that allow a student to work individually with an instructor. Requires prior approval by instructor and department chair.

SPAN 4402:Contemporary Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3304 or SPAN 3305

An examination of the historical, social, and political contexts of the contemporary Hispanic experience through the analysis of different cultural representations such as film, media, plastic arts, music and literature. Readings and discussion in Spanish.

SPAN 4404:Commercial Spanish

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3302 and SPAN 3303 or permission of the instructor.

An in-depth study of business practices and the language of business that focuses on verbal and written communication as well as economic, social and political factors that are important to the conduct of business in the Spanish-speaking world.

SPAN 4434:Topics in Language, Literature, and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3304 and SPAN 3305

An exploration of a period, movement or genre in literature, a topic in culture, or language-related issues. Topics are chosen for their significance and impact on Hispanic cultures. Course taught in Spanish.

SPAN 4456:Advanced Grammar and Linguistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3302 and SPAN 3303

Advanced study of grammar from a linguistic perspective. Provides an overview of phonetics, phonology, morphology, and syntax. Exposes students to dialectical variations of the Spanish-speaking world. Stresses development of oral proficiency. Course taught in Spanish.

SPAN 4490:Special Topics in Spanish

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3302 and SPAN 3303 or permission of the instructor.

Special topics relevant to the study of Spanish-speaking societies.

SPAN 4499:Senior Seminar

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SPAN 3304 and SPAN 3305 and senior status.

This is a capstone course designed to synthesize and connect the student's prior academic

experiences in the major and related fields of study. Students will prepare a reflective essay and a research paper to present to the faculty. Papers and presentation in Spanish.

Sport Management

SM 2100:Introduction to Sport Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to sport management. Topics include historical development of the discipline, overview of the profession, professional organizations, current issues, future trends, and career opportunities.

SM 2200:History and Contemporary Aspects of Sport

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses on the evolution of sport within the United States and how it compares and contrasts with the development of sport around the world. Topics include youth sport, collegiate athletics, professional sports leagues, international competition, culture, race, and gender.

SM 2300:Legal Aspects of Sports

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses on the application of legal principles to the sport, recreation, and fitness industries. Topics covered include agency law, tort liability, contract law, antitrust law, Constitutional law, labor law, and criminal law.

SM 2400:Sports Information and Media

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

The primary purpose of this course is to familiarize students with the field of sport information including mass communication, the print media, the broadcast media, sports news releases, interviewing, and public relations. Emphasis is placed upon the gathering, managing, and delivering of information about sport organizations, teams, players, and coaches to the public.

SM 3100:Sports Sociology and Psychology

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course provides a study of psychological and sociological theories and principles applied to

sports; analysis of sport from a psychological and sociological perspective through the study of values, norms, and behavior of sport in society.

SM 3200:Leadership and Management of Sport Organizations

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

Students explore the theoretical frameworks of the body of knowledge of Sport Management, the practical applications of those frameworks, and the ethical issues confronting today's sport managers. This course also provides application for the development of skills necessary to be an effective and efficient leader regarding communication, motivation, and decision-making. The role of human resources and leadership theory in an atmosphere of complexity and diversity is also explored.

SM 3300:Sport Event Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses upon how to successfully plan and execute sport events. Topics addressed include the determination of objectives, developing a budget, marketing, recruiting attendees, and safety.

SM 3398:Internship

0 Class Hours 3-18 Laboratory Hours 1-6 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program, and Permission of the Department Chair.

This course is a supervised, credit-earning experience of one academic semester with a previously approved business firm, sport organization, private agency or governmental agency. The course is repeatable for up to 6 credit hours.

SM 3400:Sport Facility Design and Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses upon the principles and theories involving the overall design and management of events in indoor and outdoor facilities for sport and physical activity. Topics covered include facility design, planning, management, operations, and maintenance.

SM 3500:Sponsorship and Fundraising in Sport

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses on the role of sponsorship and fundraising in sport. Students are exposed to sport-specific fundraising challenges and goals for events, facilities, and organizations in the sports industry. The roles of media and public relations are also addressed. This course stresses practical applications in unique situations faced by sport management practitioners.

SM 3600:Sports Broadcasting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course focuses on the many disciplines in the art of sports broadcasting. The course emphasizes current techniques and applications. Students are required to produce and present sports broadcasting materials encompassing studio and remote applications.

SM 3700:International Sport Governance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course introduces students to a wide spectrum of issues related to the governance of international sport organizations and events throughout the world. Students are introduced to the roles that politics, culture, and policy play in international sport organizations. Topics covered include the Olympics, Paralympics, intercultural communication and sport models throughout the world.

SM 3900:Foundations of Recreation and Leisure

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course provides a foundation for the study of recreation and leisure and the organizations that deliver recreational services. It includes an overview of the philosophical, historical, social, cultural, and political factors which influence recreation and leisure. The course emphasizes the role of the professional in the delivery of recreational services.

SM 4200:Recreation Programming

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course provides students with an overview of recreation programming across the age spectrum and diverse populations. Leisure programming trends and niche marketing are examined as well. This course also facilitates the understanding and application of the recreation program process for leisure delivery systems including an introduction to activity plans, program design, delivery, and evaluation.

SM 4300:Commercial Recreation and Tourism

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course introduces students to historical and contemporary perspectives of the field of commercial recreation and tourism. The course stresses the necessary writing, technical, business management, and people skills needed to compete in the current recreation and tourism marketplace.

SM 4400:Directed Study

1-6 Class Hours 0 Laboratory Hours 1-6 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, admission to the Sports Management program or instructor's consent.

This course covers topics of an advanced nature external to regular course offerings and requires independent instruction according to an agreement with a faculty supervisor.

SM 4490:Special Topics in Sport Management

1-6 Class Hours 0 Laboratory Hours 1-6 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program and Instructor's consent

This course covers selected topics of interest in sport management that are not regularly offered by the Department of Exercise Science and Sport Management.

SM 4600:Research Methods in Sport Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course provides students with an overview of the research process applied in the study of sport management. Students are introduced to experimental design, data gathering techniques, and statistical concepts and methods applicable to the sport management discipline. Students are expected to produce and critique academic research.

SM 4650:Sports Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 4600, SM 4700, minimum 2.5 Institutional GPA, Admission to the Sports Management Program or Instructors Permission

This course focuses on statistical applications in the field of sport management. Students will be introduced to analytical methods used to explain current trends in the sports marketplace. Students will learn how to formulate a research hypothesis and analyze that hypothesis using statistical software and statistical techniques including correlation, hypothesis testing, analysis of variance, nonparametric techniques, and regression. Students will also learn how to write a report based on the findings of their research.

SM 4700:Sports Economics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, ECON 2106, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course applies economic principles to sports. Economic models from industrial organization, public finance, labor economics, game theory, macroeconomics, and other fields of economics are used to gain a better understanding of sports and the modern sports industry.

SM 4800:Sports Finance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SM 2100, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course covers basic principles of finance as they relate to sports. Emphasis is placed current practices and issues relating to funding, budgeting, and revenue acquisition in sports through private and public means. Topics include taxing and borrowing, ticket sales, concessions, broadcast sales, and sponsorship. The course includes an introduction to collection and analysis of sports business data.

SM 4900:Senior Seminar in Sport Management

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Completion of all 2000-level and 3000-level non-elective Sport Management courses, minimum 2.5 Institutional GPA, Admission to the Sport Management Program and Instructor's consent

This capstone course for the Sport Management major integrates the major coursework with field-based experience. Two-thirds of the course is devoted to a practicum field experiences at a site, which is located by the student and pre-approved by the instructor prior to the beginning of the semester. Contemporary issues, problems, research and theories are discussed. Additional course content includes: strategies for seeking internship and entry-level employment, long-term career planning, and post graduate study options.

SM 4950:Senior Internship in Sport Management

0 Class Hours 36 Laboratory Hours 12 Credit Hours

Prerequisite: SM 4900, 90+ credit hours, minimum 2.5 Institutional GPA, Admission to the Sport Management Program or Instructor's consent

This course provides students with an opportunity for an in-depth work experience at an approved sport management internship site. Students are expected to acquire relevant skills and develop a professional network in order to prepare for entry-level employment in the sport marketplace.

Statistics

DATA 1501:Introduction to Data Science

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course is intended to provide an introduction into the field of Data Science. Students will develop skills in appropriate technology and basic statistical methods by completing hands-on projects focused on real-world data and addressing the social consequences of data analysis and application.

STAT 0996:Support for Elementary Statistics

3 Class Hours 0 Laboratory Hours 1 Credit Hours

Corequisite: STAT 1401

This Learning Support course provides co-requisite support for students enrolled in STAT 1401 - Elementary Statistics. Topics will parallel topics being studied in STAT 1401 and the course will provide support for the essential skills needed to be successful in STAT 1401. Taken with STAT 1401, topics to be covered will include descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistics topics.

STAT 1401:Elementary Statistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This is a non-calculus based introduction to statistics. Course content includes descriptive statistics, probability theory, confidence intervals, hypothesis testing, and other selected statistical topics.

STAT 2332:Probability and Data Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: A grade of "C" or better in MATH 1190

This course is a foundational, calculus-based introduction to statistics and probability. The following conceptual themes will be developed through the process of statistical investigation: exploratory data analysis (univariate and bivariate), fundamentals of experiment design and sampling, planning and conducting a study, exploring random phenomenon using probability and simulation, and the fundamentals of statistical inference. Technology is integrated into each theme, and the statistical software package used will be chosen by the instructor.

STAT 3010:Computer Applications of Statistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 1401 or ECON 2300 or STAT 3125 or STAT 2332

This is an intermediate survey course of computer-based statistical software applications in the analysis and interpretation of data. Topics include developing a proficiency in coding in multiple languages through quantitative applications. Software packages include the most in-demand statistical languages and packages in the marketplace. (e.g. Python, SAS, R)

STAT 3120:Statistical Methods I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3010

This course is designed to provide students with a foundation in statistical methods, including confidence intervals for population parameters, correlation, simple linear regression and hypothesis testing (F and T-tests for regression, chi-square for independence, 2 group and paired sample T-tests). These concepts are taught with heavy emphasis on statistical coding software and real-world datasets from a variety of disciplines.

STAT 3125:Biostatistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: BIOL 1107 or BIOL 1108 or CHEM 1212 or permission of the instructor

In this course students use descriptive statistics and visual displays to describe biological and medical data. They perform and analyze results of statistical analyses which may include confidence intervals, correlation, linear regression, odds/risk ratios, and hypothesis testing (Chi-square for independence, 2 group and paired sample t-tests). Analyses are performed using the statistical software R.

STAT 3130:Statistical Methods II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3010 and (STAT 3120 or STAT 3125 or STAT 2332 or PSYC 3000)

Students continue to build their foundation in statistical methods in this course. They will conduct non-parametric methods (Wilcoxon Signed Rank, Rank Sum, and Kruskal Wallis tests), ANOVA and multiple regression. These concepts are taught with heavy emphasis on statistical coding software and real-world datasets.

STAT 3396:Cooperative Study

1-3 Credit Hours

Prerequisite: Approval of the coordinator of cooperative education/internship.

This course is a supervised work experience program for a minimum of two academic semesters at a site in business, industry, or government. It is for sophomore, junior, or senior-level students who wish to obtain successive on-the-job experience in conjunction with their academic training.

STAT 3398:Internship

1-9 Credit Hours

Prerequisite: Approval of the program coordinator and department chair.

This course is a supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency, or government agency.

STAT 4025: Clinical Trial Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3125 or STAT 3120

The course introduces students to statistical concepts used to design clinical trials, or randomized studies of humans. Students will be able to design, conduct, and analyze clinical trials in the format required by the Food and Drug Administration. The topics include endpoint definition, sources of bias, randomization schemes, types of blindness, phases of clinical studies (I-IV), hypothesis formation, sample size determination, patient recruitment, adverse events, and protocol development.

STAT 4030: Programming in R

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3010 or STAT 3125

In this course, students will learn R programming to effectively manage, explore, visualize, and present data. The course covers practical statistical-computing issues, including reading, manipulating, and analyzing data, using control statements, existing functions, and user-created functions. Reporting results using R packages, such as R Markdown, may also be covered.

STAT 4120: Applied Experimental Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3130

Methods for constructing and analyzing designed experiments are the focus of this course. The concepts of experimental unit, randomization, blocking, replication, error reduction, and treatment structure are introduced. The design and analysis of completely randomized, randomized complete block, incomplete block, Latin square, split-plot, repeated measures, factorial, and fractional factorial designs will be covered. Statistical software will be utilized.

STAT 4125: Analysis of Human Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3130

Real-world human-subject data will be used as students conduct official clinical research in a secure computer lab. Students will complete required institutionally approved training for research on human subjects and information privacy and security. Using statistical software, students will apply statistical analysis and modeling techniques to answer questions posed by clinicians. Students will document research for reproducibility and potential publication, as well as present results in various forms.

STAT 4210: Applied Regression Analysis

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3130

This course is designed to provide students with various regression procedural methods, including simple linear and multiple regression models. Students will diagnose multicollinearity, identify outliers

and influential observations, and assess assumptions to create and validate models. Other topics will include parameters inferences, variable transformations, and qualitative predictors.

STAT 4310:Statistical Data Mining

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3130 or permission of the instructor.

Data Mining is an information extraction activity whose goal is to discover hidden facts contained in databases, perform prediction and forecasting, and generally improve their performance through interaction with data. The process includes data selection, cleaning, coding, using different statistical, pattern recognition and machine learning techniques, and reporting and visualization of the generated structures. The course will cover all these issues and will illustrate the whole process by examples of practical applications. The students will use recent SAS Enterprise Miner software.

STAT 4330:Applied Binary Classification

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 4210

Common applications of binary classification include credit worthiness and the associated development of a credit risk score, fraud detection, and the presence of a disease. Students will learn to use logistic regression, odds, ROC curves, and maximization functions to apply binary classification concepts to real-world datasets. This course utilizes statistical coding software and students are expected to have an advanced knowledge of this software.

STAT 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the instructor, major area committee, and department chair.

Special advanced topics external to regular course offerings.

STAT 4490:Special Topics in Statistics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: STAT 3130

Special topics of interest to faculty and students.

Study Abroad

SA 2290:Lower-division Study Abroad

0-9 Credit Hours

Prerequisite: Varies with discipline and subject.

Lower division study abroad course denoting freshman, sophomore level work.

SA 4400:Study Abroad Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair prior to registration.
Available for all disciplines.

SA 4490:Upper-division Study Abroad

0-12 Credit Hours

Prerequisite: Varies with discipline and subject.
Upper division study abroad course denoting junior, senior level work.

Survey

SURV 2110:Introduction to Mapping

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1113

Introductory class in basic surveying and mapping skills including geographic information systems (GIS). Topics include scales, leveling, horizontal measurements, GPS mapping, topography, map projections, GIS analytical tools, data sources, raster and vector data and software applications. Emphasis will be on small scale mapping.

SURV 2200:Construction Measurements

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: MATH 1113

Use and care of engineers level, transit and tape; leveling, traversing, stadia, contours, horizontal and vertical field layouts for buildings; reading and interpretation of site survey maps. (No credit for CET or Surveying and Mapping majors.)

SURV 2221:Surveying I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: EDG 2160 and MATH 1113 **Corequisite:** SURV 2221L

This course deals with the determination of angles, distances, elevations and horizontal and vertical location using total station and level. Simple horizontal and vertical curves and contouring are covered in this course. This course also introduces the Global Positioning System and coordinate computations.

SURV 2221L:Surveying I Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: EDG 2160 and MATH 1113 **Corequisite:** SURV 2221

This course deals with the measurement of angles, distances, elevations, horizontal and vertical location using total station and level in the field. This course also covers a topographic survey project.

SURV 3222:Surveying II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 2221 and SURV 2221L

Route geometry computations and field techniques; automated data collection and reduction for topographic surveys; coordinate computations for intersections; route design project.

SURV 3222L:Surveying II Lab

0 Class Hours 3 Laboratory Hours 1 Credit Hours

Prerequisite: SURV 2221 and SURV 2221L **Corequisite:** SURV 3222

Continuation of SURV 2221L. Topics include DTM, as-built and design surveys. GPS field methods for land surveyors is introduced.

SURV 3320:Photogrammetry and Drone Analysis

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: GEOG 3315

The course will focus on the analysis and interpretation of manned and unmanned aerial systems (UAS) that include: drones; kites; blimps; powered paragliders; and fixed wing and copter small-format aerial photography (SFAP). Furthermore, the course will examine digital image processing and interpretation of data, in addition to travel and setup for best results in evaluating SFAP and UAS imagery.

SURV 3330:Construction Surveying

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3222

Layout of designed structures from land boundaries, right of way parcels, applications of coordinate geometry, hydrographic surveying.

SURV 3421:Geographic Information Systems I

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 2221

This course provides students with an introduction to the fundamental concepts of: Geographic Information Systems (GIS); spatial data analysis; digital elevation models; and the surveying and mapping components of GIS development. GIS is used in a diverse number of fields, including civil engineering, surveying and city planning. Lectures introduce the theory and framework of GIS, while the labs introduce: the applications; processing; and presentation of geographic and spatial data.

SURV 3441:Vector & Raster Analysis

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 3421

Manipulation of vector and raster data. Use of local, focal, block and zonal statistical functions. Use of

coordinates, datums, projections. Development of map topology. Overlay and proximity analysis. Spatial joins and queries. Data storage models

SURV 3451:Terrain Analysis

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 3320

This course examines the theory and methods of the generation, compilation, analysis, and applications of digital elevation data. Specific topics include GIS, terrain data models, photogrammetry and LiDAR DEM processing, terrain surface modeling, digital terrain analysis, terrain visualization, and watershed delineation. Computer exercises in the generation and processing of DEM using GIS and image processing software packages.

SURV 3500:Applied Hydrology and Hydraulics

3 Class Hours 1 Laboratory Hours 4 Credit Hours

Prerequisite: PHYS 1111 & PHYS 1111L

This course deals with the application of hydrology and hydraulics in small site design. An emphasis is on residential subdivision and small commercial tract design. Note: This course is not available for credit for Engineering majors.

SURV 4110:Geospatial Sciences Practice

1 Class Hours 6 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 3451 and GEOG 4410

A capstone course in the applications of geospatial science technology. Course requires a project developed with an industry partner in applying geospatial science analytical skill, analysis, and mapping.

SURV 4410:Surveying Computations and Adjustments

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3222 and MATH 2202

Advanced surveying computations; matrix algebra; computer methods; statistical analysis of error propagation; variance and co-variance; least squares adjustments.

SURV 4415:Geodetic Surveying Methods

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3421

Topics in Geodetic Surveying Methods including traversing, leveling and GPS. Coordinate systems and projects are utilized.

SURV 4420:Remote Sensing

3 Class Hours 4 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3320

This course evaluates remote sensing systems; ground truthing; mapping applications; satellite imagery integration into GIS.

SURV 4422:Geographic Information Systems II

3 Class Hours 3 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3421

Continuation of GIS I; data collection techniques; advanced systems and macro programming.

SURV 4423:Advanced Field Operations

2 Class Hours 6 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3222

Emphasis placed on production surveying; use of codes to develop maps; extensive data collection; computer drafting and plotting.

SURV 4465:Legal Aspects of Land Surveying

4 Class Hours 0 Laboratory Hours 4 Credit Hours

Prerequisite: SURV 3222

Cadastral systems; Georgia laws on surveying and property; boundary survey legal research; writing of legal descriptions; evidence evaluation; US Public Land System.

SURV 4470:Land Development Design

2 Class Hours 1 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 2221 and SURV 2221L and (CE 4703 or SURV 4465)

This course deals with site analysis, subdivision design, drainage design, sewer design and discusses the legal requirements, platting, and CAD computer methods.

SURV 4475:Land Surveying Practice

2 Class Hours 3 Laboratory Hours 3 Credit Hours

Prerequisite: SURV 4465

Legal research, boundary analysis, office procedures and business practice as found in a professional land surveying environment. Special emphasis on title surveys and state of Georgia technical and plat requirements.

SURV 4490:Special Topics in Surveying

1-4 Credit Hours

Prerequisite: Junior or Senior Standing, Consent of the Department Chair

Special Topics offered by the program on a demand basis.

Technical Communication

TCID 2002:Productivity Tools and Technologies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to productivity tools and technologies for Technical Communication and Interactive Design students. In this course, students learn the Adobe design tools in addition to examining workflow tools, online workspaces, and project management tools.

TCID 2170:Introduction to Digital Media and Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course provides an introduction to the Technical Communication & Interactive Design department by surveying contemporary digital media-aesthetics, technology, politics, economics--and related cultural formations. This approach provides an introduction to key concepts and critical methodologies that are essential to understanding digital media as both technological tool and cultural artifact. Additionally, this course discusses how professional development in technical communication and interactive design relates to digital media and culture.

TCID 3100:Professional Development

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: IAD 3000 or TCOM 3431

This course improves students' abilities to describe their accomplishments in professional networking situations, company meetings, and interviews. This course also explains how to set up a personal portfolio and prepare a career development roadmap for students in Technical Communication and Interactive Design.

TCID 3400:Front-End Development I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This course introduces students to front-end web development with an emphasis on learning to code websites without relying on content management systems or templates. This course focuses primarily on HTML and CSS in addition to covering basic user interface design principles.

TCID 3800:Front-End Development II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCID 3400

This course allows students to build upon their knowledge of front-end development for websites and apps to produce complex, creative, and responsive designs. In addition to developing an advanced understanding of CSS and HTML, students are introduced to the concept of APIs and JavaScript, another front-end programming language.

TCID 4500:Front-End Development III

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCID 3800

In this project-based class, students continue their growth as front-end web developers through experiential learning. The focus of this class is to allow advanced students to pair aesthetic skills with an expanded knowledge and engagement with JavaScript.

TCID 4700:Capstone Project and Portfolio Showcase

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: 90+ credit hours **Concurrent:**

TCID 3100

This is the final senior course for the Technical Communication and Interactive Design department. Students work on a capstone project for their portfolio. Additionally, students prepare for a portfolio showcase at the end of the semester.

TCOM 2010:Technical Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

The course is an introduction to organization, style, and mechanics of technical writing. It includes practice in writing such typical documents as technical descriptions, instructions, proposals, and recommendation reports. Emphasis is placed on incorporating rhetorical theory into planning, organizing, and writing reports; designing visual aids; and editing. Among other assignments, at least one complete technical report is required.

TCOM 2030:Research in Technical Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010

This course is an introduction to research methods used by practitioners and scholars in technical communication. Students explore the relationship between theory and research and learn how to design and carry out empirical studies using both quantitative and qualitative methods. Emphasis is placed on the research methods used in workplace settings to design user-centered information products and to test their usefulness and usability.

TCOM 2050:Issues in Digital Accessibility

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This class focuses on disability issues relevant to both the development and use of web and other technologies, mandatory compliance (Section 508) and the ways in which technologies can be made compliant through captioning, proper deployment of HTML code, and more. Students gain an overview of the technological needs and the laws for accommodating persons with disabilities including the assistive technologies available for persons with disabilities (blindness/visual impairments, audiological disabilities, physical disabilities, and cognitive disabilities).

TCOM 3011:Technical Writing II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010

The course allows students to build on their knowledge of technical writing and explore advanced styles, techniques, and genres used by technical communication practitioners. Topics covered may include writing style in technical communication, and common technical communication genres not covered in TCOM 2010; these genres may include but are not limited to white papers, technical descriptions, technical specifications, professional posters, laboratory reports, and policies and procedures.

TCOM 3020:Grants and Proposals

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-majors: by permission of the Department.

This course covers the theory and practice of writing proposals for business, industry, and non-profit organizations, with emphasis on in-house planning and external grant-seeking proposals. Course covers persuasion theory and strategies while leading students step-by-step through the proposal development process. Students develop skills in gathering and evaluating information, analyzing audiences, collaborating with peers and clients, building arguments, writing clearly and cogently, and designing visually effective documents.

TCOM 3030:Instructional Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010; non-major: by permission of the Department.

This course introduces and applies systematic instructional design and instructor-led training. Students study a major model of instructional design and apply it to develop and refine a unit of instruction. Students prepare and deliver a training lesson, participate in team instructional design activities, and evaluate the training developed and presented by other students.

TCOM 3046:Information Architecture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010; Non-majors: by permission of the Department

Students learn about the art and science of structuring information for the web and other devices. This class defines what an information architect (IA) does and what role this individual has as part of a development team. The principles of information architecture are covered, including information-seeking behavior, organizing and labeling models, navigation, search strategies, and other areas critical to a successful architecture. Students learn how to develop wireframe prototypes for testing and review.

TCOM 3070:User Assistance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010; TCID 3400; Non-majors: by permission from the Department

This course explores the concepts and strategies necessary for designing effective user assistance in its many forms. The course emphasizes effective task-oriented design while introducing important industry trends like topic-based authoring, single sourcing, project planning, structured authoring, and DITA basics.

TCOM 3130: Technical Communication: Theory, Ethics, and Practice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-major: by permission of the Department.

This course examines a range of theories that have shaped technical communication thought and practice in the twenty-first century. This course also focuses on ethical issues in technical communication through case studies and other readings. This course exposes students to the evolving body of knowledge, including key theorists and practitioners that help form the foundation of the technical communication profession.

TCOM 3145: Social Media Infrastructure

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-major: by permission of the Department.

This course prepares technical communicators to assess and develop governance/oversight procedures, policies, employee training, monitoring and measurement protocols, risk and compliance guidelines, and audit processes for social media. Students select a company and conduct a semester-long case study where they develop critical infrastructure documents for social media.

TCOM 3245: Search Engine Optimization and Analytics

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010, and TCID 3400. Non-majors: by permission of the Department.

This course introduces students to the concepts, practices, and implementation of Search Engine Optimization (SEO) for digital assets (websites, images, files). Working with an existing website, students enhance existing code to leverage SEO and deploy both analytics and webmaster tools to measure and refine SEO tactics and strategies for maximum SERP presence. This course also covers fundamentals of best practices for Section 508 (ADA) compliance with online documents and website coding.

TCOM 3398: Internship

0 Class Hours 9 Laboratory Hours 3 Credit Hours

Prerequisite: At least 24 hours in Area F and Upper Division TCOM/TCID classes, and permission of department.

This course is an opportunity for students to apply principles and techniques of technical communication in a specific organization. Learning is experiential and must supplement, not duplicate, learning in the classroom. The student is responsible for finding an internship, but this program helps in the effort. The student submits a written proposal describing the internship according to program guidelines. Each internship is monitored by the student's advisor.

TCOM 3431:Information Design I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010, TCID 2002. Non-majors: by permission of the Department

The course introduces students to the principles and best practices of effective information design for both print and electronic media. Students apply rhetorical and gestalt principles to an analysis of information products. Students also redesign products to reflect good principles of information design, and they report on the rationale for these redesigns, showing the ways in which design principles have been effectively applied.

TCOM 4000:Technical Editing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-majors: by permission of the Department

This course examines the responsibilities of an editor including the methods and skills needed to edit various types of technical and scientific products (print and digital) with an emphasis on comprehensive editing. The course also teaches students how to prepare content that clearly and effectively communicates technical information to a wide range of end users. This course prepares students for writing and editing careers in technical communication.

TCOM 4045:Multi-Media for Technical Communicators

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-majors: by permission of the Department

This course is a study of the foundations of multi-media including theory, planning, scripting, storyboarding, and production for technical communicators. Projects in the class include developing multimedia-based process/mechanical descriptions, instructions and interactive graphics for product end users and customers. Students submit research work on the theory of multi-media.

TCOM 4050:Instructional Video

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-major: by permission of the Department.

This course addresses the theory and practice of developing "how-to" videos for product end users and customers. Fundamentals of instructional design, including audience analysis, goal analysis, formative and summative evaluation, are applied. Contemporary video technologies are used to generate products that instruct and inform end users/customers. Evaluation of technologies, content transfer, aesthetics and cultural considerations are addressed. Students assess commercially prepared videos and plan for incorporating them in training.

TCOM 4120:Usability

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 2010. Non-major: by permission of the Department.

This course introduces students to UX (User Experience) and usability testing. Included in the course is a review of the relevant research and practical applications of usability testing. Students learn how

to develop strategies for planning, conducting, and analyzing a test. In teams, students perform tests using online testing tools, low-fidelity in-person methods, and formal usability lab settings. A final testing report with qualitative and quantitative results is required.

TCOM 4400:Directed Study

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: To be determined by the faculty member teaching the course

This course addresses specific student needs for a specific technical communication topic not covered in the technical communication curriculum.

TCOM 4431:Information Design II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TCOM 3431. Non-major: by permission of the Department

Students apply principles and best practices of effective information design in the context of infographics and the visualization of data in analog, print, and digital media. Students create an analog journal of data visualizations and select one visualization of data to illustrate digitally. Additionally, they create graphs and charts in digital documents, produce an information graphic poster, and analyze their effectiveness

TCOM 4490:Special Topics in Technical Communication

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Approval of the Technical Communication Coordinator and The DWMA Department Chair

This course is used by faculty to offer topics that are relevant to the study of technical communication not currently in the technical communication curriculum.

Theatre and Performance Studies

TPS 1107:Theatre in Society

3 Class Hours 0 Laboratory Hours 3 Credit Hours

This interactive course examines the role of theatre in society through the study of dramatic works and performance events within their cultural and historical contexts. Course assignments promote understanding of the creative process and develop skills in critical analysis, global perspectives, and collaboration. Attendance is required at live performances, including some events with paid admission.

TPS 1500:Introduction to Theatre Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS interest.

An introduction to theatre as a field of study and as an art form.

TPS 1600:Introduction to Performance Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS interest.

An introduction to performance as a field of study and as an art form.

TPS 1713:Stagecraft

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: TPS interest.

Theoretical and practical work in theatre crafts including carpentry, properties, costumes, scene painting, stage lighting, and sound. Special attention will be given to safety precautions in each area.

TPS 2202:Introduction to Acting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Not available to declared TPS majors.

This course is an introduction to basic acting techniques. It is designed for non-Theatre and Performance Studies majors or those students who are considering a Theatre and Performance Studies major but are currently undeclared.

TPS 2203:Acting I: Principles of Acting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS interest.

The theory and practice of the actor's craft.

TPS 2290:Special Topics

1-12 Variable Credit Hours

Students will explore special topics relevant to the Department of Theatre and Performance Studies.

TPS 2713:Theatre Production

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: TPS 1713

A study of the creative process of theatrical production from concept to performance. This course features the analysis of selected scripts as well as individually-designed production and/or performance assignments. Theatre and Performance Studies majors must complete TPS 2713 two times for a total of four hours credit.

TPS 2813:Visual Imagination

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Declared Theatre and Performance Studies Major

This course is a course in the visual aspects of the art of theatre that focuses on the principles, the elements and the history and current practice of visual design for the theatre.

TPS 3000:Performing Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 1600

The study of a variety of literary texts through solo and group performance. Students engage course topics through critical reading, written analysis, and embodied performance.

TPS 3015:Musical Theatre Techniques I

0 Class Hours 3 Laboratory Hours 2 Credit Hours

Prerequisite: Declared Theatre and Performance Studies Major

This course focuses on basic skills in musical theatre singing styles and vocal health.

TPS 3050:Applied Performance and Production

0 Class Hours 1 Laboratory Hours 1 Credit Hours

This laboratory course focuses on the study, rehearsal, and performance or production for a Department of Theatre and Performance Studies production. This course may be repeated for upper division credit and can be used for applied professional sequence (APS) credit.

TPS 3093:Performing Folktales and Fairy Tales

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

The study of folktales and fairy tales from world oral traditions through storytelling performance.

TPS 3094:Performing Classical Myth

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

The study of Greek and Roman mythology through storytelling performance.

TPS 3095:Performing Irish Myth

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

The study of Irish mythology through storytelling performance.

TPS 3193:Performing World Myth

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

The study of world mythology through storytelling performance.

TPS 3194:Performing Personal Narrative

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

The study of personal narratives through performance.

TPS 3200:The Actor's Voice

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2203 or permission of the instructor.

This course is designed to help performers develop a healthy, expressive and flexible vocal technique equal to the demands of dramatic performance. Students learn to free their natural voices through physical exercises and by mastering the vocabulary of vocal mechanics. Breathing, posture, relaxation, and articulation are examined as key elements of voice and speech production.

TPS 3210:Movement for the Actor

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2203

Movement for the Actor is a studio course dedicated to bringing awareness to the body as an essential part of the actor's training. In this course, the student actor will explore the expressive capacity of the physical and emotional body in the context of acting.

TPS 3213:Acting for the Camera

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 3223

An intermediate acting course applying acting techniques to the special demands of film and television.

TPS 3223:Acting II: Intermediate Acting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major, a grade of "B" or better in TPS 2203

An intermediate acting course applying and advancing the principles of Acting I to intermediate level stage challenges.

TPS 3243:Acting III: Acting Styles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major and TPS 2203 or TPS 3223

This course explores advanced topics in the art of stage acting. Emphasis is on period and genre styles. Theoretical studies will be combined with the performance of selected scenes and critical evaluations of peer and professional work. *This course may be repeated more than once for credit provided that the course content differs entirely from the previous offering.

TPS 3320:Musical Theatre Performance: Applied Voice

0 Class Hours 1 Laboratory Hours 1 Credit Hours

Prerequisite: TPS 3015 and entrance by application

Advanced practice and study in the craft and theory of musical theatre vocal performance. Work will culminate each semester in a recital or showcase. May be repeated for credit up to six times.

TPS 3398:Internship

1-9 Credit Hours

Prerequisite: Approval of the department chair.

A supervised, credit-earning work experience of one academic semester with a previously approved business firm, private agency, or government agency.

TPS 3400:Performance Composition

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 1600 or permission of the instructor.

Course examines and applies various approaches for composing live performance events. Additionally, students research and analyze a wide range of performance texts as inspiration for composing and mounting their own performances. Finally, the course culminates in a final presentation of student works.

TPS 3403:Play Analysis for Production

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 1500

Textual analysis of playscripts, with an emphasis on the perspective of the practitioner of theatre. A preparatory course for the history of theatre and drama sequence.

TPS 3493:Performance Art

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 1600

History, theories, and practice of performance art from futurism to the present. Emphasis is on the creation and performance of image, auteur approaches to literary, mythic, visual art, and personal sources, and the writing and staging of performance pieces.

TPS 3500:Dramaturgy

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 3403

Close study of performance texts and source material, with an emphasis on dramaturgical praxis, including an overview of the history/theory of the dramaturg.

TPS 3600:Performing Culture

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 1600

The study of the forms and functions of cultural performance practices. Students engage course topics through critical reading, written analysis, original fieldwork, and embodied performance.

TPS 3700:Music Theory for Musical Theatre

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Corequisite: TPS 1500

Music sight-reading skills and aural techniques specifically tailored for the musical theatre performer are the focus of this course. Students will apply these skills through practical application using examples from musical theatre literature.

TPS 3703:Musical Theatre History and Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major and ENGL 1102

This course is an introduction to musical theatre which surveys the major shows in musical theatre literature, through the study of the plots, scores, characters, and songs of the shows. Students explore the genre's place and function in theatre history as both an art form and popular entertainment and its influence on culture in general.

TPS 3710:Musical Theatre Voice

1 Class Hours 0 Laboratory Hours 1 Credit Hours

Prerequisite: TPS 3015

An intermediate study of healthy vocal production for musical theatre singers. Focuses on building musical theatre repertoire and audition preparation. Study occurs through a weekly group studio class and weekly private sessions with instructor.

TPS 3713:Acting in Musical Theatre

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2203 and TPS 3015

This course provides students the opportunity to develop an effective acting technique for the musical stage. Through in-class exercises and the study of the scores and libretti from major shows in the repertoire, students will develop performance techniques particular to the musical theatre genre and an appreciation of its diverse styles.

TPS 3740:Musical Theatre Dance Workshop

0 Class Hours 2 Laboratory Hours 2 Credit Hours

Prerequisite: DANC 3100 or DANC 3200

This course provides an understanding of technical dance terms, relevant to the varied styles of

Musical Theatre, through study and application in the studio. Students will learn various dance numbers from musical theatre repertoire, study the history of musical theatre dance, and prepare for professional theatre dance auditions. Students will also increase performance stamina by integrating dance technique, style, character development, and vocals.

TPS 3815:Makeup Design and Application for the Performer

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

This course introduces the student to two-dimensional stage makeup, focusing on an understanding of facial structure, a proficiency in basic makeup concepts and application procedures, and a knowledge of the role of makeup as a critical component in a complete performance.

TPS 3820:Scene Painting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major

This course provides students with fundamentals in painting for the theatre, which includes scene painting material, tools, methods, processes, and techniques. It consists of instructional talks, demonstrations, hands-on experience and rationalization.

TPS 3823:Design Skills

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

Basic design skills including drafting, sketching and rendering. Offered in versions oriented specifically toward set design or costume design in alternating years.

TPS 3833:Fundamentals of Drawing for Theatre

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major or TPS Interest

Fundamentals of Drawing for Theatre introduces materials, tools, methods, processes, and techniques of drawing through lectures, exercises, projects, homework, and critique. Structured around five class projects, this course aims to develop a skill base in drawing that is essential in the training of theatrical designers.

TPS 3853:Period Styles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

An examination of the history and interrelationships between dress, architecture and the visual arts as they relate to the field of theatrical design.

TPS 4010:Storytelling Practicum

2 Class Hours 0 Laboratory Hours 2 Credit Hours

Prerequisite: TPS 1600 and permission of the instructor. Audition required.

Advanced study of the methods and practice of storytelling as a performing art. Students develop a repertoire of stories suitable for various audiences and occasions. Off-campus and out-of-class performances comprise a major required component of the course.

Notes: May be taken three times for a total of 6 credit hours.

TPS 4015:Musical Theatre Techniques II

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: TPS 3015

This course focuses on skills in musical theatre singing styles for intermediate-level students.

TPS 4020:Musical Theatre Ensemble

0 Class Hours 2 Laboratory Hours 1 Credit Hours

Prerequisite: TPS 3015 or TPS 4015; Entrance by audition or application and acceptance into Musical Theatre Ensemble.

Advanced practice and study in the craft and theory of musical theatre performance. Work will culminate each semester in either a production or a juried recital. May be repeated for credit up to six times.

TPS 4030:Actor's Studio

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Audition and/or the approval of the instructor.

This practical-based course focuses on advanced practice and study in the craft and theory of acting. Students explore a variety of acting styles through intensive scene work and exercises. Actor's Studio may be repeated for credit up to four times; students who have taken the course twice may elect to take the course for 0 credit hours.

TPS 4040:Stage Combat

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2203

This is an introductory course in Stage Combat. Students will learn the skills necessary to safely and dynamically create the illusion of violence on stage.

TPS 4050:Advanced Applied Performance and Production

0 Class Hours 3 Laboratory Hours 2 Credit Hours

This laboratory course focuses on advanced study, rehearsal, and performance or production for a

Department of Theatre and Performance Studies production. This course may be repeated for upper-division credit and may be used for applied professional sequence credit.

TPS 4243:Audition Practicum

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 3223

This course prepares students for the major forms of auditions they will encounter in the field of acting.

TPS 4313:Principles of Directing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 3403

Students will learn the fundamentals of directing for the stage. Theoretical studies will be combined with the direction of selected scenes and observation of working directors. Emphasis is on 20th century realism.

TPS 4323:Directing Styles

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS Major. TPS 3403

Students will learn the fundamentals of directing for the stage. Emphasis is on non-realistic period and genre styles. Theoretical studies will be combined with the direction of selected scenes and observation of working directors. *This course may be repeated more than once for credit provided that the course content differs entirely from the previous offering.

TPS 4333:Adapting and Staging Literary Texts

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 3000 or permission of the instructor/department.

Aesthetics, methods, and practice in presentational modes of group performance. Emphasis on the selection, adaptation, and staging of poetic, narrative, and nonfiction texts.

TPS 4400:Directed Study

1-3 Credit Hours

Prerequisite: Approval of the instructor and department chair.

Selected topics of an advanced nature, which may include original research projects.

TPS 4490:Special Topics

1-3 Credit Hours

Prerequisite: Approval of the instructor and departmental chair.

Topics of special interest to students and faculty.

Notes: This course may be repeated more than once for credit provided that the course content differs entirely from the previous offering.

TPS 4513:History and Theory I: Ancient through Renaissance Theatre and Performance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 3403

This course focuses on studies in the history, theory, and literature of world theatre and performance traditions from ancient times through the Renaissance.

TPS 4523:History and Theory II: Neoclassical through Romantic Theatre and Performance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 4513

This course focuses on studies in the history, theory, and literature of world theatre and performance traditions from the Neoclassical Age through early Modernism.

TPS 4533:History and Theory III: Victorian through Contemporary Theatre and Performance

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 4513

This course centers on studies in the history, theory, and literature of world theatre and performance traditions from the Victorian period through the contemporary era.

TPS 4543:American Performance Traditions

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 4513

Studies in the history of American solo performance and popular entertainment traditions.

TPS 4813:Scene Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

Building blocks for scene design with an emphasis on transforming written text into three-dimensional visual language, and working through fundamental scene design problems.

TPS 4823:Lighting Design for the Stage

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

Study of lighting design for the stage, including study of lighting instruments and control.

TPS 4833:Costume Design

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 2813

Study of principles, methods and processes for costume design for the stage.

TPS 4999:Senior Seminar: The Scholar Artist

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: TPS 4513

This capstone course investigates the roles creativity, scholarship, and artistic identity play in personal and professional lives via mission statements, career goals, and action steps. Projects include discipline-specific design, development, and integration of self-marketing tools into presentations for entering the professional world.

Writing

WRIT 3000:Introduction to Creative Writing Genres

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a multi-genre creative writing survey incorporating the study of three genres from the following list: short fiction, poetry, creative nonfiction, playwriting, and screenplay writing. Pairing creativity with technique, this content-based course introduces students to concepts, approaches, and methods. As students develop a portfolio of work, they learn to contextualize their own writing with writings from celebrated authors by completing short critical commentaries. This course introduces students to the workshop format.

WRIT 3100:Poetry Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a workshop approach to poetry writing that emphasizes original writing, revision, and analysis and response from classmates. Some attention is given to the work of established writers as models.

WRIT 3109:Careers in Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course exposes students from a variety of backgrounds to various careers in writing. (Students need not be English majors.) Students will analyze and create a wide variety of professional texts ranging from technical, business, and governmental documents to medical, community-based, and web-based documents.

WRIT 3110:Playwriting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a workshop approach to playwriting that emphasizes original writing, revision, and analysis and response from classmates. Some attention is given to the work of established writers as models.

WRIT 3111:Professional Editing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This is a course in editing as a practice and a profession. It focuses on editorial roles and responsibilities and introduces students to the skills, principles, and methods of editing. Course assignments provide ample practice in applying the techniques of editing, including editing for grammar, punctuation, and style. This course prepares students for careers in publishing and writing.

WRIT 3120:Fiction Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a workshop approach to fiction writing that emphasizes original writing, revision, and analysis and response from classmates. Some attention is given to the work of established writers as models.

WRIT 3125:Interactive Narrative & Games

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course explores the theory and practice of writing narratives for interactive fiction and video games. Through multiple written projects and workshops, students gain experience developing and creating interactive narratives for diverse platforms and genres. Additionally, students explore the intersection among narrative theory, game studies, and creative authorship through critical readings and discussion.

WRIT 3130:Literary Nonfiction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is a study and practice of selected genres of literary nonfiction. The course features extensive nonfiction writing and revision, workshop discussion, and readings in major authors of literary nonfiction.

WRIT 3140:Writing in the Workplace

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course emphasizes strategies for producing effective documents in a variety of professional contexts. Students gain practice with common workplace forms as they master writing clearly and with the needs and expectations of their audiences in mind. This course is particularly valuable to students preparing for careers in business, government, and nonprofit organizations.

WRIT 3150:Topics in Digital Rhetoric

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course explores rhetorical practices in electronic environments and provides an examination of major works on digital reading, writing, and culture framed by contemporary rhetorical theories. Students plan, design, and compose a variety of rhetorically effective digital texts. This course can be taken more than once provided the course content differs from the previous offering.

WRIT 3151:Digital Storytelling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

Stories shape both our personal identities and our culture. Stories move us, entertain us, and affect social change and public awareness. This Digital Storytelling course focuses on the theory and practice of narrative composition in digital environments, including text, image, audio, and video. Students learn to compose rhetorically dynamic and engaging digital stories that explore a variety of types, techniques, audiences, and purposes (for personal, academic, and professional contexts). The course explores critical and creative approaches to narrative and visual design while attending to the interplay of form and content.

WRIT 3152:Digital Community Engagement

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course includes collaborative digital writing projects that reach beyond the classroom for the purpose of community engagement and/or community service. Students learn to use digital tools that support collaboration and streamlined team organization. The course involves students in writing, research, and analysis to implement projects of value in which they partner with community groups to inform, educate, and advocate for change through the design of digital content and engagement projects.

WRIT 3160:Argumentative Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on the study and practice of argumentative writing. It includes the study of

current models of effective arguments and the process of forming written arguments. It features extensive writing and revision, workshop discussion, and readings of classical and contemporary arguments. The course can be taken more than once provided the course content differs entirely from the previous offering.

Notes: These courses can be taken more than once provided the course content differs entirely from the previous offering.

WRIT 3170:Environmental Writing and Literature

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course is intended for students interested in major works of environmental literature and for those who wish to think and write about the interconnections between humans and the nonhuman world. The course studies pastoral literature, nature writing, and science writing, and provides instruction in the writing of environmental nonfiction prose for aesthetic, expressive, intellectual, and instrumental purposes.

Notes: This course can be taken more than once if content differs entirely from a previous offering.

WRIT 3210:Graphic Storytelling

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course focuses on the theory, practice, and production of comics and graphic narratives across media. Topics may include visual rhetoric, graphic and transmedia storytelling, image and representation, and the use of other sensory-based media in graphic narrative. Projects may include essays, sketchbooks, proposals/scripts, a chapter of a graphic novel, a pilot for a comic book series, and a one-off graphic storytelling project.

WRIT 3650:Introduction to Literacy Studies

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course provides students with an overview of approaches to studying and shaping literacy in a range of social contexts, including workplace, instructional, and community settings. Students explore literacy studies research, literacy practices, and the implications of competing definitions of literacy within the field of rhetoric and professional writing as well as other disciplines.

WRIT 3810:Research Methods for Writers

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: ENGL 1102

This course introduces students to quantitative, qualitative, and mixed methods theories in the fields of writing studies and engages students in practices of researched writing for a variety of digital media spaces. Students learn to create and process research reports by getting exposure to mixed

methods, including interviewing, survey design, and archival work. The course teaches how to perform basic qualitative and quantitative analyses and IRB-approved research.

WRIT 4100:Advanced Poetry Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WRIT 3100

Building on the skills learned in WRIT 3100, this course offers advanced workshop experiences for practiced writers of poetry and includes lecture and discussion of contemporary approaches to poetics and the work of contemporary poets. This workshop approach stresses development and integration of all technical and artistic elements of poetry writing.

WRIT 4110:Advanced Playwriting

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WRIT 3110

This advanced workshop stresses development and integration of all technical and artistic elements of playwriting. Some readings from the work of established writers are included.

WRIT 4120:Advanced Fiction Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WRIT 3120

Building on the skills learned in WRIT 3120, this course offers advanced workshop experiences for practiced writers of fiction and includes lecture and discussion of contemporary approaches to fiction writing and the work of contemporary fiction writers. This workshop approach stresses development and integration of all technical and artistic elements of fiction writing.

WRIT 4125:Advanced Techniques in Fiction Writing

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WRIT 4120 or permission of the instructor.

Advanced Techniques in Fiction Writing is a seminar-workshop that offers in-depth study of a topic in fiction writing. It builds on skills learned in WRIT 4120, but differs from this workshop in that it focuses on a particular topic rather than student-generated manuscripts. For example, students may study a specific author's use of a technique or the use of a technique in a subgenre as a model for their own writing.

WRIT 4130:Advanced Creative Nonfiction

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: WRIT 3130

This course offers advanced workshop experiences for practiced writers of creative nonfiction and includes lecture and discussion of contemporary approaches to writing creative nonfiction and the work of contemporary creative nonfiction writers. This workshop approach stresses development and integration of all technical and artistic elements of writing creative nonfiction.

Academy for Inclusive Learning and Social Growth

AIAE 0101:Introduction to ASCE I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course focuses on the transition to the ASCE program and provides a framework for understanding everyday life skills in the areas of responsibility, respect for self and others, teamwork, maintaining positive attitude, time management, financial responsibility, and other critical elements that are needed to become independent young adults today.

AIAE 0102:Introduction to ASCE II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0101

This course builds on the content covered in ASCE I and identifies methods for individualized supports to build, monitor, and enhance core academic and social skills related to overall school success. Students will explore methods for improving the development of individual thinking, socialization, and how to succeed in independent living situations.

AIAE 0103:Professional Communication I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course is designed to enhance young adults with communication, problem solving and critical thinking skills they need to be successful in life. This course will focus on the development of communication skills in a professional setting, professionalism and critical thinking through lecture, group work, and experiential learning opportunities.

AIAE 0104:Professional Communication II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0103

This course builds on the content covered in Professional Communications 1 and will introduce students to the theories and best practices of speech communication as applied to business and professional situations.

AIAE 0105:Career Preparation and Internship I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course is designed to allow students the opportunity to establish, develop, and expand skills that lead to positive employment outcomes through hands-on experiences and in-class instruction of best practices.

AIAE 0106:Career Preparation and Internship II

1 Class Hours 8 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0105

This course will expand on skills developed in Career Preparation and Internship I. This course is designed to assist students in understanding the career development process in order to make informed and appropriate occupational and educational decisions. Internship hours are required.

AIAE 0201:Managing Personal Resources I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course explores how to use human, material, and community resources effectively, and how to make informed choices with respect to purchases, food, nutrition, housing, and transportation. Students will learn how to make responsible choices in their transition to independent living and strategies to enable them to manage time, talents, and money effectively.

AIAE 0202:Managing Personal Resources II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0201

This course builds on the skills learned in Managing Personal Resources I with an emphasis on introducing students to skills used resource management. Student will identify the principles and techniques required for effective management of personal and family finances and identify the roles that responsible consumerism plays in independent and family living.

AIAE 0203:Intermediate Professional Communications I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course is designed to build on skills learned in year 1 of the ASCE program. The course concentrates on building speaking and delivery skills, as well as critical thinking and analytical skills that focus on presentation organization. Students will begin to make choices about the most effective and efficient way to communicate and deliver messages.

AIAE 0204:Intermediate Professional Communications II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0203

This course builds on skills learned Intermediate Professional Communications I with an emphasis on providing a conceptual framework and specific tools for communicating in complex environments. Students will demonstrate how to offer feedback, accept feedback, and use feedback to improve communication skills.

AIAE 0205:Career Preparation and Internship III

1 Class Hours 8 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only.

This course is designed to prepare students in the ASCE program for the transition to the workforce. Students will investigate how their skills, interests, values and personality influence career decisions. Students will begin to organize and prepare professional documents that includes resumes, cover letters, letters of recommendation, and other essential items needed for a customized employment portfolio. Internship hours are required.

AIAE 0206:Career Preparation and Internship IV

1 Class Hours 8 Laboratory Hours 3 Credit Hours

Prerequisite: Student must be enrolled in the Academic, Social and Career Enrichment Certificate only and AIAE 0205

This course builds on skills discussed in Career Preparation and Internship III. Students will investigate the job search process and recognize the qualities, skills, and abilities that employers are seeking in job candidates. Students will complete professional documents that include a resume, cover letters, letters of recommendation, and other essential items needed for a customized employment portfolio. Internship hours are required.

AIAE 0301:Advanced Professional Communications I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course is designed to understand theories and practice of speech and written communication as applied to business and professional situations. Students will learn to demonstrate an understanding of professional language, written principles, and multimodal communication, including verbal, written, and digital/visual modes.

AIAE 0302:Advanced Professional Communications II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development

Certificate only and AIAE 0301

This course will expand on the skills presented in Advanced Professional Communications I and is designed to improve communication skills with peers, family, teachers, and large groups of people. Students will explore the role of rapidly expanding technologies in verbal and nonverbal messages, listening skills and critical thinking.

AIAE 0303:Leadership Seminar I

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course provides a framework for developing leadership skills as they relate to career and academic success. Seminars are designed to promote the leveraging of leadership skills as a basis for career success, as well as individual and group impact within the global community. This course will focus on the development of leadership skills through lecture, group work, and experiential learning opportunities.

AIAE 0304:Leadership Seminar II

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only and AIAE 0303

This course will build on skills developed in Leadership Seminar I and identify abilities that help develop leaders in the workplace. Students will identify and evaluate their communication style, leadership style, complete peer reviews, and practice constructive feedback. Students will participate dedicated leadership hours and training in the larger campus community.

AIAE 0305:Career Preparation and Internship V

1 Class Hours 7 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course will focus on the development of job skills including interviewing techniques, resume preparation, career exploration, and career preparation. Students will investigate the job search process and recognize the qualities, skills, and abilities that employers are seeking in job candidates. Internship hours are required.

AIAE 0306:Career Preparation and Internship VI

1 Class Hours 7 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only and AIAE 0305

This course will build on skills learned in Career Preparation and Internship V and identify key career development theories and learn how to integrate self-knowledge into occupational/life decisions, set goals, and devise strategies to attain these goals. Internship hours are required.

AIAE 0401:Advanced Professional Communications III

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course will explore communication in the global economy that requires individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication.

AIAE 0402:Advanced Professional Communications IV

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only and AIAE 0401

This course will expand on the skills learned in Advanced Professional Communications III and enable students to expand the ability to write, read, edit, speak, listen, and conduct Internet research in professional settings.

AIAE 0403:Leadership Seminar III

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course will focus on the development of leadership skills through lecture, group work, and experiential learning opportunities and is designed to prepare students in their final year of the ALCD program to present their skills and value to potential coworkers, employers, and other stakeholders.

AIAE 0404:Leadership Seminar IV

3 Class Hours 0 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only and AIAE 0403

This course builds on the skills learned in Leadership Seminar III and provides students a framework for developing leadership skills as they relate to career success. Students will create an ePortfolio designed to help them promote themselves through a comparison of their skills and abilities and the artifacts that demonstrate their abilities.

AIAE 0405:Career Preparation and Internship VII

1 Class Hours 7 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

This course is designed to prepare students in the ALCD program for the transition to the workforce. Students will investigate how their skills, interests, values and personality influence career decisions. Students will begin to organize and prepare professional documents that includes

resumes, cover letters, letters of recommendation, and other essential items needed for a customized employment portfolio. Internship hours are required.

AIAE 0406:Career Preparation and Internship VIII

1 Class Hours 7 Laboratory Hours 3 Credit Hours

Prerequisite: Students must be enrolled in the Advanced Leadership and Career Development Certificate only.

Students will work with transition and career specialists to focus on job opportunities and establishing strategic career and professional goals. Students will complete professional documents that include a resume, cover letters, letters of recommendation, and other essential items needed for a customized employment portfolio. Internship hours are required.

Other Courses

RES 4000:Vertically Integrated Projects

0 Class Hours 3-12 Laboratory Hours 1-4 Credit Hours

Multidisciplinary course supporting faculty research. Can participate multiple semesters. Students will have strong foundations within discipline, pursue further knowledge/skills, make meaningful contributions, and assume significant technical/leadership responsibilities.

Faculty

Faculty A - F

Abaidoo, Samuel, Professor, Ph.D., University of Saskatchewan, 1997, M.A., University of Saskatchewan, 1994, B.A., University of Cape Coast, 1987

Abaza, Hussein, F, Professor, Ph.D., Virginia Polytechnic Institute and State University, 2002, Bachelor of Architecture, King Faisal University, 1987, M.S., Jordan University, 1991

Abbott-Lyon, Heather, L, Associate Professor, Ph.D., University of Virginia, 2007, B.S., Emory University, 2002, B.S., Emory University, 2002

Abernathy, John, L, Associate Professor, Ph.D., The University of Alabama, 2010, M.Acct., The University of Alabama, 1997, B.S., Birmingham-Southern College, 1996

Achar, Premila, N, Associate Professor, Ph.D., University of Mysore, 1989, M.Phil., University of Mysore, 1983, M.S., University of Mysore, 1982, B.S., University of Mysore, 1980

Ackert, Lucy, F, Professor, Ph.D., Emory University, 1990, M.A., University of Florida, 1984, B.S.B.A., University of Florida, 1982

Adams, Erin, C, Assistant Professor, Ph.D., University of Georgia, The, 2016, Ed.S., University of Georgia, The, 2010, M.Ed., University of Georgia, The, 2008, B.S., University of Central Florida, 2006

Adams, Lisa, G, Associate Professor, Ph.D., University of California, Los Angeles, 1993, M.S., San Diego State University, 1988, B.S., Fairleigh Dickinson University, 1985

Adams, Megan, G, Associate Professor, Ph.D., The University of Georgia, 2012, M.A.T., Piedmont College, 2006, A.B., The University of Georgia, 2004

Adams, Paula, M, Librarian Associate Professor, M.L.I.S., Wayne State University, 2002, B.A., Michigan State University, 1998

Adams, Yenupini, Assistant Professor, Ph.D., Michigan State University, 2016, B.S.N., Calvin College, 2012

Adebayo, Akanmu, G, Professor, Ph.D., University of Ife, 1986, M.A., University of Ife, 1982, B.A., University of Ife, 1979

Adhikari, Dhruva, R, Associate Professor, Ph.D., University of South Florida, 2007, M.S., Tribhuvan University, 1996, B.S., Tribhuvan University, 1994

Aditya, Animesh, V, Lecturer, Ph.D., Purdue University, 2010, M.Sc., University of Delhi, 2002, B.Sc., University of Delhi, 1999

Aguilar, Rodolfo, Assistant Professor, Ph.D., University of Minnesota, 2014, B.A., University of Illinois at Chicago, 2007

Akins, Edwin, E, Associate Professor, M.ARCH, Georgia Institute of Technology, The, 1996, B.S., Georgia Institute of Technology, The, 1994

Akinyemi, Nurudeen, B, Associate Professor, Ph.D., University of South Carolina at Columbia, 1994, M.A., Southern University and Agricultural and Mechanical College at Baton Rouge, 1986, B.A., The State University of New York at Buffalo, 1985

Alamilla, Saul, G, Associate Professor, Ph.D., University of California, Santa Barbara, 2009, M.A., University of California, Santa Barbara, 2006, M.S., California State University, Fullerton, 2004, B.A., California State University, Fullerton, 2002

Albrecht, Eric, A, Associate Professor, Ph.D., Wayne State University, 2000, B.S., Central Michigan University, 1993

Aledhari, Mohammed, Assistant Professor, Ph.D., Western Michigan University, 2017, M.S., University of Basrah, 2010

Alexander, Chris, W, Assistant Professor, Ph.D., Clemson University, 1993, B.S., Wofford College, 1988

Ali, Radwan, M, Associate Professor, Ph.D., The University of Georgia, 2006, M.B.A., Kennesaw State University, 1998, B.S., Kennesaw State University, 1986

Allen, Christopher, T, Assistant Professor, Ph.D., University of South Carolina - Columbia, The, 2010, M.A., John Jay College of Criminal Justice, 2004, A.B., Dartmouth College, 2002, A.B., Dartmouth College, 2002

Allen, Judy, B, Senior Lecturer, J.D., Atlanta Law School, 1992, M.A., Texas Southern University, 1988, B.S., Prairie View Agricultural and Mechanical University, 1987

Allison, Audrey, W, Associate Professor, Ph.D., Southern Illinois University at Carbondale, 1999, M.S., University of Missouri-Columbia, 1987, B.S., Southern Illinois University at Carbondale, 1983

Alme, Karyn, A, Senior Lecturer, M.S., University of North Dakota, 2001, B.S., University of North Dakota, 1994

Alviar, Theresa, P, Assistant Professor, Ph.D., Emory University, 2008, M.A., Columbia University in the City of New York, 1993, B.Sc., University of the Philippines, 1989

Amason, Janeen, S, Associate Professor, Ph.D., Georgia State University, 2013, M.S.N., Troy State University, 1995, B.S.N., Auburn University, 1991

An, Sohyun, Associate Professor, Ph.D., University of Wisconsin-Madison, 2009, M.A., Seoul National University, 2001, B.A., Seoul National University, 1999

Anderson, Mark, R, Professor, Ph.D., University of Wisconsin-Madison, 1987, B.S., Indiana University Bloomington, 1983

Ariail, Donald, L, Professor, D.B.A., Nova Southeastern University, 2005, MPACC, Georgia State University, 1976, B.B.A., Georgia State University, 1970

Arias, Anna Maria, Assistant Professor, Ph.D., University of Michigan Ann Arbor, The, 2015, M.E., University of Notre Dame, 2007, M.S., University of Michigan Ann Arbor, The, 2013, B.S., University of Notre Dame, 2005

Armstrong, David, G, Senior Lecturer, Ph.D., University of Texas - Austin, 2000, M.A., University of Texas - Austin, 1989, B.A., University of California, Los Angeles, 1986

Arnett, E, J, Assistant Professor, Ph.D., Texas Tech University, 2008, M.A., Texas Tech University, 2003, B.A., Whittier College, 1996

Artese, Brian, P, Senior Lecturer, Ph.D., Northwestern University, 2004, M.A., University of Colorado at Boulder, 1996, B.A., University of Colorado at Boulder, 1992

Asgill, Austin, B, Professor, Ph.D., University of South Florida, 1990, M.B.A., Florida State University, 1999, M.S., University of Aston in Birmingham, 1982, B.E., University of Sierra Leone, 1979

Askildson, Lance, R, Associate Professor, Ph.D., The University of Arizona, 2008, M.A., Florida State University, 2004, B.A., University of Minnesota, 2002, B.A., University of Minnesota, 2002

Atiqullah, Mir, M, Professor, Ph.D., Purdue University, 1996, M.S.M.E., Purdue University, 1990, B.S., Bangladesh University of Engineering and Technology, 1976

Atkins, Robert, W, Professor, M.B.A., Georgia State University, 1985, B.S., Virginia Polytechnic Institute and State University, 1972

Aust, Charles, F, Professor, Ph.D., The University of Alabama, 1993, M.A., Indiana University Bloomington, 1985, B.S., University of Pittsburgh at Johnstown, 1975

Aust, Philip, J, Associate Professor, Ph.D., The University of Oklahoma, 2000, M.A., California State University, Fullerton, 1993, B.A., Ambassador College, 1990

Aycock, Laurie, D, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2011, B.S., University of West Georgia, 1993

Azriel, Joshua, N, Professor, Ph.D., University of Florida, 2006, M.A., University of Florida, 1999, B.A., Kalamazoo College, 1996

Babenko, Yuliya, V, Associate Professor, Ph.D., Vanderbilt University, 2006, M.A., Vanderbilt University, 2003, M.S., Dnepropetrovsk National University, 2001, B.S., Dnepropetrovsk State University, 2000

Bagasra, Anisah, Assistant Professor, Ph.D., Saybrook University, 2011, M.A., Saybrook University, 2005

Bagchi, Aniruddha, Professor, Ph.D., Vanderbilt University, 2006, M.A., Vanderbilt University, 2004, M.A., Delhi School of Economics, Delhi, India, 1997, B.S., Presidency College, Kolkata, India, 1995

Bahl, Erin, K, Assistant Professor, Ph.D., The Ohio State University, 2018, M.A., The Ohio State University, 2014

Bailey, Bill, D, Assistant Professor, Ph.D., Indiana State University, 2011, M.S., North Carolina A&T State University, 1998, B.A., University of North Carolina, 1994

Bailey, Rita, L, Professor, Ed.D., Illinois State University, 2002, M.S., Illinois State University, 1992, B.S., Illinois State University, 1990

Baker, Meredith, B, Lecturer, Ph.D., Purdue University, 2007, B.S., The University of Georgia, 2001

Baker, Virginia, M, Professor, Ph.D., University of South Carolina at Columbia, 1987, B.S.B.A., East Carolina University, 1981

Baker, William, E, Assistant Professor, Ph.D., Auburn University, 2001, M.A., The University of Alabama at Birmingham, 1978, B.A., The University of Alabama at Birmingham, 1972

Ballard, Nancy, M, Assistant Professor, Ph.D., University of Kansas, 2015, M.S.N., Georgia Health Sciences University, 1993, B.S.N., Brenau University, 1982

Bandyopadhyay, Tridib, Professor, Ph.D., The University of Texas at Dallas, 2006, M.B.A., The University of Texas at Dallas, 2001, M.B.A., University of Delhi, 1995, B.E., University Of North Bengal, 1985

Banke, Susan, L, Clinical Assistant Professor, Ph.D., Barry University, 2004, M.S., Barry University, 1997, B.A., Baptist Bible College, 1976

Bankhead, Meghan, M, Lecturer, Ph.D., University of Alabama, The, 2017, M.A., Western Kentucky University, 2010, B.S., University of Florida, 2007

Bariteau, Erinn, A, Lecturer, M.S., Mississippi State University, 2015, M.S.Ed., Le Moyne College, 2007, B.S., University at Albany, State University of New York, 2001

Barnett, Katherine, B, Clinical Assistant Professor, B.S.N., Georgia Health Sciences University, 1998

Bartlett, Stephen, M, Senior Lecturer, M.A., Clemson University, 1997, B.A., Georgia State University, 1994

Baruah, Bharat, Associate Professor, Ph.D., Jadavpur University, 2003, M.S., Dibrugarh University, India, 1998, B.S., Sibsagar College, Dibrugarh University, India, 1995

Basch, Mary, C, Senior Lecturer, Ed.S., Georgia Southern University, 2017, M.Ed., Georgia State University, 1998, B.S., University of Charleston, 1993

Baughman, Diana, M, Clinical Assistant Professor, M.S.N., Kennesaw State University, 2007, B.A., Cedarville University, 1981, B.S.N., Kennesaw State University, 2003

Baunach, Dawn, M, Professor, Ph.D., University of Virginia, 1996, M.A., University of Virginia, 1993, B.A., Duke University, 1990

Beach, Michael, B, Associate Professor, Ph.D., University at Albany - The State University of New York, 2000, B.S., University at Albany - The State University of New York, 1993

Beadles, Sam, J, Professor, M.S., University of California, 1987, B.S., Northern Arizona University, 1982

Bedette, Kathryn, L, Associate Professor, M.ARCH, Arizona State University, 1999, B.S., Georgia Institute of Technology, The, 1992

Behrman, Mary, D, Senior Lecturer, Ph.D., Emory University, 2004, M.A., Georgia State University, 1998, B.S., University of Pennsylvania, 1987, B.S., University of Pennsylvania, 1987

Bell, Douglas, D, Associate Professor, Ph.D., Florida State University, 2010, M.S., Florida State University, 2002, B.A., University of North Florida, 1999

Bell, Marla, Professor, Ph.D., Clemson University, 1993, M.S., Clemson University, 1989, B.S., Western Carolina University, 1986

Benedict, Leah, Assistant Professor, Ph.D., State University of New York at Buffalo, 2015, M.A., State University of New York at Buffalo, 2011, B.A., University of Utah, 2007

Benjamin, Jesse, J, Associate Professor, Ph.D., The State University of New York at Binghamton, 2002, M.A., The State University of New York at Binghamton, 1996, B.A., Long Island University, 1992

Bennett, Ann, M, Assistant Professor, Ph.D., University of Tennessee - Knoxville, The, 2015, M.S.Ed., University of Tennessee - Knoxville, The, 2011, B.A., University of Tennessee - Knoxville, The, 2007, B.A., University of Tennessee - Knoxville, The, 2005

Bennett, Kathleen, E, Assistant Professor, Ph.D., University of Georgia, The, 2016, M.Ed., University of West Georgia, 2010, B.A., University of North Florida, 2005

Benson, Debra, D, Senior Lecturer, M.B.A., Kennesaw State University, 2004, B.B.A., The University of Oklahoma, 1975

Bernardy, Anja, Professor, Ph.D., University of Pittsburgh, 1998, M.A., The University of Oklahoma, 1992, B.A., The University of Oklahoma, 1989, B.S., The University of Oklahoma, 1987

Berwald, Olaf, Professor, Ph.D., The University of North Carolina at Chapel Hill, 2000, M.A., Eberhard - Karls - Universitat - Tübingen, Germany, 1994

Bessette, Harriet, J, Professor, Ph.D., Boston College, 1999, M.Ed., Fitchburg State College, 1993, B.S., Salem State College, 1975

Bhasin, Tavishi, Associate Professor, Ph.D., Emory University, 2008, M.A., Emory University, 2005, M.A., University of Mumbai, 2000, B.A., St. Xavier's College, Mumbai India, 1998

Bird, Sandra, L, Professor, Ph.D., Florida State University, 1999, M.F.A., Indiana University Bloomington, 1985, B.A., Rollins College, 1981

Blackwell, Leslie, J, Professor, D.M.A., University of Kentucky, 2002, M.M., Georgia State University, 1991, B.M., West Georgia College, 1984

Blake, Barbara, J, Professor, Ph.D., Texas Woman's University, 2000, M.S., University of South Florida, 1989, B.S.N., Florida Southern College, 1985

Blumentritt, Timothy, P, Associate Professor, Ph.D., University of South Carolina at Columbia, 1999, M.B.A., University of Minnesota, 1993, B.B.A., University of Wisconsin-EauClaire, 1989

Bobbie, Patrick, Professor, Ph.D., University of Southwestern Louisiana, The, 1986, M.S., Marquette University, 1982, B.S., Kwame Nkrumah University of Science and Technology, 1980

Bock, Joseph, G, Professor, Ph.D., American University, 1985, M.S.W., University of Missouri-Columbia, 1981, B.S.W., University of Missouri-Columbia, 1980

Boettler, Lynn, M, Assistant Professor, M.A., Truman State University, 1988, B.S.E., Truman State University, 1986

Bohannon, Jeanne, L, Associate Professor, Ph.D., Georgia State University, 2012, M.Ed., Western Governors University, 2006, B.A., Georgia State University, 1995

Booker, Sherri, J, Lecturer, Ed.S., Piedmont College, 2005, Ed.S., Kennesaw State University, 2012, M.Ed., State University of West Georgia, 1997, B.S.Ed., Georgia State University, 1976

Borders, Aberdeen, L, Professor, Ph.D., Georgia State University, 2002, M.B.A., Georgia State University, 1995, B.B.A., The University of Georgia, 1975

Boss, Ginny, J, Assistant Professor, Ph.D., University of Georgia, The, 2014, M.A., Asbury Theological Seminary, 2007, B.A., Georgia Southern University, 2004

Botelho, Keith, M, Professor, Ph.D., University of New Hampshire, 2006, M.A., University of New Hampshire, 2001, B.A., Saint Anselm College, 1996

Boudreau, James, W, Assistant Professor, Ph.D., University of Connecticut, 2009, M.A., University of Connecticut, 2005, B.A., University of Connecticut, 2003, B.A., University of Connecticut, 2003

Bowers, Cynthia, Associate Professor, Ph.D., Loyola University Chicago, 1999, M.A., DePaul University, 1991, B.A., Lewis University, 1978

Bradbury, John, C, Professor, Ph.D., George Mason University, 2000, M.A., George Mason University, 1998, B.A., Wofford College, 1996, B.A., Wofford College, 1996

Bradley, Regina, N, Assistant Professor, Ph.D., Florida State University, 2013, M.A., Indiana University Bloomington, 2008, B.A., Albany State University, 2006

Branham, Daniel, L, Lecturer, B.S., West Virginia Institute of Technology, 1984

Brannan, Jane, D, Professor, Ed.D., The University of Georgia, 1996, M.S., Georgia State University, 1985, B.S., Georgia State University, 1980

Brasco, Craig, R, Assistant Professor, B.A., University of South Carolina, 1994, MSMI, The Medical College of Georgia, 1998

Brawley, Dorothy, E, Professor, Ph.D., Georgia State University, 1982, M.B.A., Georgia State University, 1972, B.A., Emory University, 1970

Bray, David, E, Associate Professor, Ph.D., Florida State University, 2010, M.B.A., Florida State University, 2003, B.S., Florida State University, 2002

Bremner, Marie, N, Professor, Ph.D., The University of Alabama at Birmingham, 1990, M.S., Old Dominion University, 1983, B.S.N., Syracuse University, 1979

Brodak, Molly, A, Lecturer, M.F.A., West Virginia University, 2008, B.A., Oakland University, 2004

Brooks, Benjamin, F, Assistant Professor, Ph.D., University of Cincinnati, 2011, M.Ed., University of Cincinnati, 2006, B.S., James Madison University, 2001

Brooks, Mandy, J, Senior Lecturer, M.B.A., Kennesaw State University, 1998, M.B.A., Kennesaw State University, 1998, B.A., The University of Georgia, 1995

Brookshire, Joy, L, Senior Lecturer, M.S., The Georgia Institute of Technology, 1995, B.S., Kennesaw State University, 1991

Brotman, Billie, A, Professor, Ph.D., University of Notre Dame, 1978, M.A., University of Notre Dame, 1977, B.S., Arizona State University, 1974

Brouthers, Lance, E, Professor, Ph.D., University of Florida, 1992, Ph.D., Florida State University, 1980, M.A., The University of Memphis, 1977

Brown, Christopher, A, Assistant Professor, Ph.D., University of Nevada, Las Vegas, 2012, M.Ed., The University of Georgia, 2000, B.S.Ed., The University of Georgia, 1997

Brown, Jonathan, C, Lecturer, M.B.A., University of Georgia, The, 2011, B.B.A., University of Georgia, The, 2004

Brown, Lesley, J, Librarian Assistant Professor, M.I.L.S., Florida State University, 2005, B.A., Michigan State University, 1997

Brown Spiers, Miriam, C, Assistant Professor, Ph.D., University of Georgia, The, 2014, M.A., University of Georgia, The, 2009, B.A., Oglethorpe University, 2006

Bryan, Charity, L, Clinical Associate Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2006, M.A., University of Alabama at Birmingham, The, 1999, B.S., Samford University, 1997

Bryantsev, Anton, L, Assistant Professor, Ph.D., Institute of Experimental Cardiology, 2003, M.S., Moscow State University, 1999

Buckman, David, G, Assistant Professor, Ph.D., University of South Carolina - Columbia, 2015, Ed.S., University of South Carolina - Columbia, 2013, M.Ed., University of South Carolina - Columbia, 2012, B.S., University of South Carolina - Columbia, 2008

Buddie, Amy, M, Professor, Ph.D., Miami University, 2001, M.A., Miami University, 1998, B.A., Ohio University, 1996

Bullard, Theodore, M, Lecturer, M.A., Gonzaga University, 2012, B.S., Kennesaw State University, 2008

Buresh, Robert, J, Professor, Ph.D., University of Nebraska Medical Center, 2007, M.S., University Of Nebraska Omaha, 2002, B.S., University Of Nebraska Omaha, 1999

Burke, Meghan, A, Professor, D.Phil., University of Oxford, 1992, SCB, Brown University, 1987

Burmester, Elizabeth, T, Associate Professor, Ph.D., University of Illinois at Chicago, 2003, M.A., DePaul University, 1995, B.A., University of Michigan, The, 1988

Burney, Nancy, R, Senior Lecturer, M.S., Kennesaw State University, 2009, B.A., Mercer University, 1972

Burns, David, J, Professor, D.B.A., Kent State University, 1987, M.B.A., Cleveland State University, 1981, B.S.B.A., Wright State University, 1979

Burton, Tyra, A, Senior Lecturer, M.S.M., The Georgia Institute of Technology, 1992, B.B.A., Georgia State University, 1990

Butcher, Charity, K, Associate Professor, Ph.D., Indiana University Bloomington, 2009, B.A., Transylvania University, 1999

Butler, Renee, J, Professor, Ph.D., Georgia Institute of Technology, The, 2003, M.S., Georgia Institute of Technology, The, 1999, B.I.E., Georgia Institute of Technology, The, 1996

Cabage, LeAnn, N, Lecturer, M.A., Western Illinois University, 2010, B.A., Lincoln Memorial University, 2007

Cain, Jabari, P, Assistant Professor, Ph.D., University of Nebraska - Lincoln, 2008, M.A., University of Northern Iowa, 2003, B.S., Florida Agricultural and Mechanical University, 2000

Callahan, Brendan, E, Associate Professor, Ph.D., University of South Florida, 2009, M.Ed., University of South Florida, 2004, B.A., University of South Florida, 2001, B.S., University of South Florida, 1997

Callahan, Kadian, M, Associate Professor, Ph.D., University of Maryland at College Park, 2006, M.S.Ed., Indiana University Bloomington, 2002, B.S., Florida Agricultural and Mechanical University, 1998

Calloway, Jimmy, Professor, Ph.D., University of Maryland at College Park, 1985, M.Ed., University of Cincinnati, 1970, B.S.Ed., University of Cincinnati, 1969

Camargo Dodonova, Dimitri, C, Senior Lecturer, M.B.A., Kennesaw State University, 2004, M.S.I.S., Kennesaw State University, 2003, B.S., Bolivian State University, 1996

Campana, Jeffrey, C, Assistant Professor, M.F.A., Indiana University Bloomington, 2008, B.F.A., University of Wisconsin-Whitewater, 2004

Campbell, Jane, E, Professor, D.B.A., The University of Tennessee, 1981, M.B.A., The University of Tennessee, 1980, B.A., The University of Tennessee, 1976

Campbell, Lola, L, Senior Lecturer, M.Ed., Northwestern State University, 1977, B.S.Ed., Georgia Southern University, 1976

Campbell, Stacy, M, Professor, Ph.D., The University of Georgia, 2007, M.A., The University of North Carolina at Chapel Hill, 1996, B.A., Lafayette College, 1993

Cao, Zhu, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2008, M.S., University of Illinois at Urbana-Champaign, 2002, B.S., Shandong University, 1996

Carpenter, William, J, Professor, Ph.D., UNDEFINED, 2005, Bachelor of Architecture, Mississippi State University, 1986, M.ARCH, Virginia Polytechnic Institute and State University, 1989

Carroll, Frederick, J, Lecturer, Ph.D., College of William and Mary, 2012, M.A., College of William and Mary, 2004, B.A., Northern Illinois University, 1993

Carroll, Michael, J, Associate Professor, M.ARCH, Dalhousie University, 1987, M.S., McGill University, 1999, B.S., Dalhousie University, 1985

Carte, Traci, A, Associate Professor, Ph.D., The University of Georgia, 1999, M.B.A., The University of Georgia, 1994, B.S., Wright State University, 1993

Carter, Terry, Professor, Ph.D., University of South Carolina, 2002, M.A., University of South Carolina, 1999, B.A., University of South Carolina, 1992

Caylor, Marcus, L, Associate Professor, Ph.D., Georgia State University, 2006, M.S., The Georgia Institute of Technology, 1999, B.S.I.E., The Georgia Institute of Technology, 1998

Chaifetz, Marshal, L, Clinical Associate Professor, J.D., Indiana University Bloomington, 1997, B.A., Indiana University Bloomington, 1994

Chakravarty, Sumit, Assistant Professor, Ph.D., University of Maryland Baltimore County, 2008, M.S., Texas A&M University - Kingsville, 2003, B.S., Nagpur University, 1995

Chambers, Dennis, J, Professor, Ph.D., The University of Texas at Austin, 1996, M.B.A., University of California, Irvine, 1991, B.A., Westmont College, 1977

Chambers, Donna, M, Clinical Assistant Professor, M.S., Georgia State University, 1997, B.S.N., University of Colorado Medical Center School of Medicine, 1978

Chandler, Sandra, R, Lecturer, M.S., Georgia State University, 1995, B.S., Georgia State University, 1992

Chang, Meilin, Associate Professor, Ph.D., The Ohio State University, 2009, M.A., National ChengChi University, 2001, B.A., National ChengChi University, 1998

Chang, Yusun, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2007, M.S., Columbia University in the City of New York, 2002, M.S., Korea Aerospace University, 1995, B.S., Korea Aerospace University, 1993

Chastine, Jeffrey, W, Professor, Ph.D., Georgia State University, 2007, M.S., Georgia Institute of Technology, The, 1999, B.M.E., Valdosta State University, 1994

Chavoshi, Manijeh, Lecturer, M.S., Southern Polytechnic State University, 2010, B.S., Islamic Azad University, 1991

Chen, Estella, B, Associate Professor, Ph.D., Yale University, 1996, M.Phil., Yale University, 1994, B.S., Emory University, 1990

Chen, Li, Librarian Associate Professor, M.L.I.S., University of Western Ontario, The, 1992, B.A., Beijing Second Foreign Language University, 1985

Chen, Ming, Professor, M.A., University of Pittsburgh, 1989, M.F.A., Shanghai Theater Academy, 1985, B.F.A., Shanghai Theater Academy, 1982

Chen, Xueying, Librarian Assistant Professor, M.L.I.S., Louisiana State University and A & M College, 1997, M.A., University of Arkansas, 1996, B.A., Jilin University, 1985

Chiang, Richard, T, Lecturer, M.S., Georgetown University, 2013, B.S., Georgia State University, 2011

Chin, Craig, Associate Professor, Ph.D., Florida International University, 2006, M.S., Florida International University, 2001, B.S., University of the West Indies, 1995

Choi, Jayoung, Associate Professor, Ph.D., Georgia State University, 2009, M.A., Georgia State University, 2003, B.A., Incheon National University, 2001

Chowdhury, Mohammed, R, Assistant Professor, Ph.D., George Washington University, The, 2014, M.A., Ball State University, 2008

Chrestensen, Carol, A, Professor, Ph.D., Case Western Reserve University, 2000, B.A., Wheaton College, 1992

Chung, Kyu-soo, Assistant Professor, Ph.D., University of Texas - Austin, 2014, M.A., Korea University - Seoul, 2006, M.A., Central Michigan University, 2008, B.A., Korea University - Seoul, 2004

Churella, Albert, J, Professor, Ph.D., Ohio State University, The, 1994, M.A., Ohio State University, The, 1990, B.A., Haverford College, 1986

Clay, Keely, D, Associate Professor, M.F.A., Savannah College of Art and Design, 2005, B.F.A., Savannah College of Art and Design, 2003

Cleaveland, Mary, C, Associate Professor, Ph.D., Georgia State University, 2007, M.Tx., Georgia State University, 1999, B.S., The Georgia Institute of Technology, 1996

Clegorne, Nicholas, A, Associate Professor, Ph.D., Louisiana State University and A & M College, 2012, M.M., University of Florida, 2004, B.M., University of Florida, 2002

Clements, Alan, B, Associate Professor, J.D., Georgia State University, 1996, Ph.D., University of Florida, 1989, M.B.A., University of Florida, 1982, B.S.B.A., University of Florida, 1977

Clincy, Victor, A, Professor, D.Eng., Southern Methodist University, 1993, MIMS, North Carolina State University, 1989, M.S., University of Pittsburgh, 1991, B.S.E.E., Mississippi State University, 1986, C.S.E., Columbia University in the City of New York, 1998

Clune, Richard, R, Professor, E.D.M., Case Western Reserve University, 2005, M.B.A., Kennesaw State University, 2001, B.S., Manhattan College, 1974

Cochran, Justin, D, Associate Professor, Ph.D., The University of Georgia, 2008, M.S., Auburn University, 2000, B.M.E., Auburn University, 1998

Coffey, Debra, J, Associate Professor, Ed.D., The University of Tennessee, 2004, M.S., The University of Tennessee, 1982, B.S., Carson-Newman College, 1980

Cole, Charles, R, Professor, M.ARCH, Georgia Institute of Technology, The, 1976, B.S., Georgia Institute of Technology, The, 1974

Cole, Judith, E, Lecturer, M.M., University of Cincinnati, 1980, B.M., The University of North Carolina at Chapel Hill, 1977

Cole, Pamela, B, Professor, Ph.D., Virginia Polytechnic Institute and State University at Blacksburg, 1994, M.S., Radford University, 1984, B.A., Emory and Henry College, 1982

Colebeck, Donna, Senior Lecturer, M.F.A., Rochester Institute of Technology, 1983, B.S., Nazareth College of Rochester, 1978

Collard, Carol, S, Associate Professor, Ph.D., The University of Georgia, 2007, M.S.W., The University of Georgia, 2001, B.A., Loyola University New Orleans, 1979

Collins, Christin, Librarian Assistant Professor, M.L.I.S., University of Kentucky, 2014, B.S., Georgia State University, 2009

Collins, Jeffrey, M, Assistant Professor, M.ARCH, Ohio State University, The, 2002, B.S., Ohio State University, The, 2000

Collins, Stephen, D, Professor, Ph.D., Johns Hopkins University, 2004, M.A., Johns Hopkins University, 2002, M.A., Villanova University, 1998, B.A., Villanova University, 1992

Collins, Susan, T, Senior Lecturer, Ed.S., West Georgia College, 1987, M.Ed., West Georgia College, 1983, B.S., Jacksonville State University, 1981

Como, Joseph, A, Senior Lecturer, M.Ed., Georgia State University, 1997, B.S., University of Hartford, 1984

Cone, Neporcha, T, Associate Professor, Ph.D., University of South Florida, 2006, M.S., Nova Southeastern University, 2000, B.S., Florida State University, 1996

Conley, Nancy, S, Assistant Professor, Ph.D., Michigan State University, 2017, M.M., State University of New York, 1996, B.M., Ithaca College, 1990

Conner, Caroline, J, Assistant Professor, Ph.D., Georgia State University, 2015, M.A., Georgia State University, 2009, B.A., Miami University of Ohio, 2005

Conrey, Gregory, M, Associate Professor, M.Ed., Georgia State University, 1988, B.S., Eastern Kentucky University, 1982

Corbitt, Anne, E, Senior Lecturer, M.F.A., The University of Mississippi, 2008, A.B., Elon University, 2004

Corn, Kristen, H, Associate Professor, Ph.D., The University of Georgia, 2010, M.A., The University of Georgia, 2005, B.A., University of North Carolina - Chapel Hill, 2003

Cortes, Kimberly, J, Assistant Professor, Ph.D., Miami University, 2011, B.S., University of Central Missouri, 2007

Cowden, Birton, Assistant Professor, Ph.D., Saint Louis University, 2014, M.B.A., Indiana University, 2010, M.S., Indiana University, 2010, B.S.B.A., University of Illinois at Urbana-Champaign, 2005

Crank, Beverly, R, Assistant Professor, Ph.D., Georgia State University, 2014, M.S., Georgia State University, 2010, B.S., Kennesaw State University, 2008

Creekmur, Renata, A, Senior Lecturer, M.A., Università Delgi Studi di Milano, 2007, B.A., Università Delgi Studi di Milano, 1992

Creel, Sarah, Lecturer, Ph.D., Simon Fraser University, 2015, M.A., University of Montevallo, 2007, B.A., University of Montevallo, 2005

Crimm, Lance, C, Professor, M.S.E.E., Georgia Institute of Technology, The, 1994, B.E.E., Georgia Institute of Technology, The, 1993

Croft, Sheryl, J, Assistant Professor, Ph.D., Emory University, 2013, M.Ed., Georgia State University, 1980, B.A., Emory University, 1971

Croicu, Ana-Maria, Professor, Ph.D., Florida State University, 2005, Ph.D., Babes-Bolyai University in Cluj-Napoca, Romania, 2001, M.S., Technical University in Cluj- napoca, Romania, 1995, B.S., Technical University in Cluj- napoca, Romania, 1994, B.S., Babes-Bolyai University in Cluj-Napoca, Romania, 1995

Cross, Ellen, Senior Lecturer, M.B.A., The College of William and Mary, 1989, B.A., Randolph-Macon Woman's College, 1978

Crovitz, Darren, Professor, Ph.D., Arizona State University, 2005, M.A., University of Central Florida, 1997, B.A., Flagler College, 1993

Crowder, William, S, Associate Professor, Ph.D., Union Institute and University, 1998, M.B.A., Brenau University, 1990, B.S., Brenau University, 1985

Cruz Ortiz, Jaime, O, Associate Professor, Ph.D., The University of Oklahoma, 2009, M.A., The University of Iowa, 2003, B.A., The University of Oklahoma, 1999, B.A., The University of Oklahoma, 1999

Culp, Brian, O, Professor, Ed.D., The University of Georgia, 2005, M.S., Georgia State University, 2001, B.S.Ed., The University of Georgia, 1999

Dail, Jennifer, S, Professor, Ph.D., Florida State University, 2004, M.Ed., Georgia State University, 2000, B.S.Ed., The University of Georgia, 1996

Das, Sandip, Assistant Professor, Ph.D., University of South Carolina, 2014, Master of Engineering, University of South Carolina, 2012, B.E., Indian Institute of Engineering, Science, and Technology, 2004

Davis, Allison, C, Senior Lecturer, Ph.D., The University of North Carolina at Greensboro, 2009, M.A., The University of North Carolina at Greensboro, 2004, B.A., Carson-Newman College, 1999

Davis, Corrie, L, Professor, Ph.D., Georgia State University, 2008, M.A., West Virginia University, 1999, B.S., Delaware State University, 1998

Davis, James, R, Associate Professor, Ph.D., Bowling Green State University, 2004, M.A., University of Northern Iowa, 1999, B.A., Clarke College, 1990

Davis, La Tiffany, D, Librarian Assistant Professor, M.L.I.S., University of South Carolina - Columbia, The, 2011, B.A., Coastal Carolina University, 2008

Davis, Laura, Associate Professor, Ph.D., Georgia State University, 2011, M.A., Middle Tennessee State University, 2002, B.A., Wake Forest University, 1997

Daws, Laura, B, Associate Professor, Ph.D., University of Kentucky, 2009, M.A., Auburn University, 2005, B.A., University of North Alabama, 2003

DeAngelo, Angela, Senior Lecturer, M.Ed., State University of West Georgia, 2000, B.A., Georgia State University, 1982

de Chesnay, Mary, L, Professor, Ph.D., The University of Alabama at Birmingham, 1982, M.S., Rutgers, The State University of New Jersey, 1973, B.S., College of Saint Teresa, 1969

DeMaio, Joseph, D, Professor, Ph.D., Emory University, 1996, M.A., Emory University, 1994, M.A., Wake Forest University, 1990, B.S., Wake Forest University, 1988

DeWitt, Jeff, R, Professor, Ph.D., Georgia State University, 2005, M.A., Georgia State University, 1998, B.A., Georgia State University, 1993

Delacruz, Stacy, R, Associate Professor, Ed.D., Walden University, 2009, M.A.T., Marygrove College, 2005, B.A., Capital University, 2001

Delgado, Samuel, E, Assistant Professor, M.A., Bellevue University, 2010, B.S., Florida International University, 1987

Dembla, Pamila, Associate Professor, Ph.D., The University of Memphis, 2003, M.B.A., University of Mumbai, 1997, B.E., University of Mumbai, 1993

Deng, Shangrong, Associate Professor, Ph.D., Michigan State University, 1991, M.S., Michigan State University, 1986, B.S., South China Normal University, 1982

Derado, Josip, Assistant Professor, Ph.D., University of Connecticut, 1999, M.S., University of Connecticut, 1995, B.S., University of Zagreb, 1990

Devaney, Thomas, F, Senior Lecturer, M.B.A., Kennesaw State University, 1991, B.S.B.A., The State University of New York at Oswego, 1979

Devereaux, Michelle, D, Associate Professor, Ph.D., University of Virginia, 2010, M.Ed., Kennesaw State University, 2004, B.S., Kennesaw State University, 2002

Devine, Patrick, J, Professor, Ph.D., Illinois Institute of Technology, 1980, M.Ed., Georgia State University, 1975, B.A., John Carroll University, 1974

Dhital, Chetan, Assistant Professor

Di Pietro, Michele, Professor, Ph.D., Carnegie Mellon University, 2001, M.S., Carnegie Mellon University, 1997

Dias, Laurie, B, Professor, Ph.D., Georgia State University, 2000, M.S., Western Kentucky University, 1991, A.B., Western Kentucky University, 1987

Dias, Michael, J, Professor, Ph.D., Georgia State University, 2000, M.Ed., West Georgia College, 1992, B.S., Western Kentucky University, 1987

Dibble, Valerie, Professor, M.F.A., University of Florida, 1991, B.F.A., Arizona State University, 1982

Dickey, Jennifer, W, Associate Professor, Ph.D., Georgia State University, 2007, M.H.P., Georgia State University, 1999, M.I.B.S., University of South Carolina at Columbia, 1984, B.S., Berry College, 1980

Dillon, Meighan, I, Professor, Ph.D., University of Virginia, 1987, B.A., Hunter College, 1981

Diong, Billy, M, Professor, Ph.D., University of Illinois at Urbana-Champaign, 1992, M.S., University of Illinois at Urbana-Champaign, 1988, B.S., University of Illinois at Urbana-Champaign, 1986

Diop, Oumar, C, Associate Professor, Ph.D., University of Connecticut, 2002, M.A., University of Leeds, 1988, M.A., University of Cheikh Anta Diop, Dakar Senegal, 1987, B.A., University of Victoria, Manchester England, 1985

Dirnberger, Joseph, M, Professor, Ph.D., The University of Texas at Austin, 1989, M.S., The University of Oklahoma, 1983, B.S., Baylor University, 1980

Disbrow, Lynn, M, Professor, Ph.D., Wayne State University, 1989, M.A., Emerson College, 1986, B.A., Indiana University, 1982

Dishman, Mike, L, Professor, Ed.D., Vanderbilt University, 2007, J.D., The University of Mississippi, 1996, B.A., The University of Mississippi, 1993

Dockery, Christopher, R, Associate Professor, Ph.D., University of South Carolina at Columbia, 2005, B.S., Berry College, 2001

Doleys, Thomas, J, Associate Professor, Ph.D., Vanderbilt University, 2001, M.A., University of Virginia, 1992, B.A., Duke University, 1990

Dominick, Joan, E, Associate Professor, Ed.D., The University of Georgia, 1990, M.A., The City College of New York, Queens College, 1975, B.A., The City College of New York, Queens College, 1973

Donahue, Amy, K, Associate Professor, Ph.D., The University of Hawaii at Manoa, 2011, M.A., The University of Hawaii at Manoa, 2003, M.A., King's College London, 1997, A.B., Colgate University, 1994

Donovan, Roxanne, A, Professor, Ph.D., University of Connecticut, 2004, M.A., University of Connecticut, 2002, B.A., Rutgers, The State University of New Jersey, 1998, B.B.A., University of Miami, 1993 (*on leave*)

Doral, Murat, Senior Lecturer, M.A., West Virginia University, 1988, M.B.A., West Virginia University, 1990, B.A., University Of Istanbul, 1983

Doromal, Joseph Vincent, B, Clinical Assistant Professor, D.N.P., Augusta University, 2017, B.S.N., University of Florida, 2014

Doss, Bridget, A, Senior Lecturer, M.A.P.W., Kennesaw State University, 1998, B.A., Kennesaw State University, 1993

Dover, Paul, M, Associate Professor, Ph.D., Yale University, 2002, B.A., Yale University, 1991

Driver, Melissa, K, Assistant Professor, Ph.D., University of Virginia, 2015, B.A., University of Florida, 2006

Drost, Leslie, A, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2013, B.A., University of Connecticut, 1988

DuRocher, Kristina, A, Professor, Ph.D., University of Illinois at Urbana-Champaign, 2005, M.A., University of Illinois at Urbana-Champaign, 2002, B.A., Michigan State University, 2000

Duchac, Neil, E, Assistant Professor, DrPH, Capella University, 2015, Ph.D., University of Toledo, 2002, M.S.Ed., University of Dayton, 1997, B.S., University of Dayton, 1991, B.S., University of Dayton, 1991

Dudenhoeffer, Larrie, Professor, Ph.D., Georgia State University, 2010, M.A., Gannon University, 2003, M.A.T., University of Pittsburgh, 1999, B.A., Gannon University, 1997

Duff, Jack, L, Senior Lecturer, M.S., Georgia Institute of Technology, The, 1989, B.S., University of West Florida, 1982

Dunagin, Amy, Assistant Professor, Ph.D., Yale University, 2014, Ph.D., Yale University, 2014, M.A., Yale University, 2010, M.A., Yale University, 2010, M.Phil., Yale University, 2010, M.Phil., Yale University, 2010

Durham, Ralph, W, Senior Lecturer, M.A., The University of North Carolina at Chapel Hill, 1995, B.S., Barton College, 1986

Dutcher, Cristen, W, Clinical Assistant Professor, J.D., Mercer University, 2006, A.B., The University of Georgia, 2002

Duvall, Charles, H, Lecturer, M.S., Georgia Institute of Technology, The, 1997, B.S., Southern Polytechnic State University, 1986

Dyal, MariAmanda, A, Assistant Professor, Ph.D., The University of Georgia, 2013, M.Ed., The University of Georgia, 2008, B.S.Ed., The University of Georgia, 2005

Dyckhoff, Danelle, J, Assistant Professor, Ph.D., Claremont Graduate University, 2015, M.A., Loyola Marymount University, 2007, B.A., California State University, Sacramento, 2004 (*on leave*)

Dytoc, Bronne, Assistant Professor, Master of Building Science, University of Southern California, 1992, B.S., University of the Philippines, 1988

Eanes, Edward, Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 1995, M.M., Florida State University, 1986, B.M., Furman University, 1983

Eaves, Yvonne, D, Associate Professor, Ph.D., University of Michigan, 1998, M.S., Northern Illinois University, 1990, B.S., Saint Xavier University, 1987

Edwards, Belinda, P, Professor, Ph.D., Georgia State University, 2009, M.Ed., University of North Florida, 1995, B.S., Florida State University, 1985

Edwards, Ordene, V, Lecturer, Ph.D., University of Nevada, Las Vegas, 2010, M.S., University of Nevada, Las Vegas, 2006, B.A., Fort Valley State University, 2003

Edwards, Steven, R, Professor, Ph.D., University of Virginia, 1988, M.S., Southern Illinois University at Carbondale, 1982, B.A., Saint John's University, 1980

El-Itr, Zuhair, M, Professor, Ph.D., Georgia Institute of Technology, The, 1992, M.S., Georgia Institute of Technology, The, 1987, B.S., American University of Beirut, 1985

Elayan, Khalil, I, Senior Lecturer, Ph.D., Georgia State University, 2003, M.A., The University of Tennessee at Chattanooga, 1997, B.A., The University of Tennessee at Chattanooga, 1995

Ellermeyer, Sean, F, Professor, Ph.D., Emory University, 1991, M.S., Emory University, 1990, B.A., Saint Vincent College, 1986

Elley, Kristen, R, Senior Lecturer, M.A., The University of Kansas, 2003, B.A., The University of Kansas, 2000, B.A., The University of Kansas, 2000

Elue, Chinasa, A, Assistant Professor, Ph.D., Clemson University, 2014, M.Ed., Valdosta State University, 2008, B.S., University of Georgia, The, 2007

Emerson, Christina, F, Clinical Assistant Professor, M.S.N., Kennesaw State University, 1999, B.S.N., Emory University, 1979

Emert, Randall, A, Assistant Professor, M.S., Western Illinois University, 1993, B.S., Western Illinois University, 1989

Ensign, William, E, Professor, Ph.D., Virginia Polytechnic Institute and State University at Blacksburg, 1995, M.S., The University of Tennessee, 1988, B.A., The George Washington University, 1982, B.A., The George Washington University, 1982

Epps, Adrian, L, Professor, Ed.D., Clark Atlanta University, 2007, M.Ed., Emory University, 1996, B.A., Emory University, 1989

Ergai, Awatef, Assistant Professor, Ph.D., Clemson University, 2013, M.S., University of Tripoli, 2005, M.S., Clemson University, 2011, B.S., University of Tripoli, 1997

Esmaeili, Mohammad, A, Assistant Professor, Ph.D., Wichita State University, 2016, M.S., Wichita State University, 2013

Esmat, Tiffany, A, Associate Professor, Ph.D., Kent State University, 2009, M.Ed., Cleveland State University, 2005, B.A., Baldwin Wallace College, 2002, B.A., Baldwin Wallace College, 2002

Evans, James, D, Librarian Professor, Ph.D., Georgia State University, 1997, M.L.S., University of Kentucky, 1977

Eyles, Joseph, W, Lecturer, Ph.D., University of Texas - Austin, 1998, M.S., Auburn University, 1982, B.S.Ed., Auburn University, 1980

Fadyn, Joseph, N, Professor, Ph.D., Lehigh University, 1977, M.S., Georgia State University, 1988, M.S., Lehigh University, 1974, B.A., Lehigh University, 1971

Fallon, Thomas, J, Professor, Ph.D., Georgia State University, 2003, M.S.E.E., Georgia Institute of Technology, The, 1995, B.E.E., Georgia Institute of Technology, The, 1986

Farfan, Eduardo, B, Professor, Ph.D., University of Florida, 2002, Master of Engineering, University of Florida, 1999, B.S., University of Florida, 1997, B.S., Belarusian State University, 1991

Farooq, Ameen, Professor, Ph.D., Georgia Institute of Technology, The, 1999, Bachelor of Architecture, University of Idaho, 1982, M.ARCH, University of Idaho, 1983

Farr, Daniel, R, Senior Lecturer, Ph.D., University of Albany, State University of New York, 2016, M.A., University of Albany, State University of New York, 2003

Farr Schiller, Angela, M, Assistant Professor, Ph.D., Stanford University, 2015, M.A., New York University, 2007, B.A., University of California, Santa Cruz, 2004

Farrington, Donna, M, Lecturer, M.S., The University of Alabama at Birmingham, 1987, B.S., The University of Alabama at Birmingham, 1983

Fatehi, Kamal Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 1976, M.B.A., Western Illinois University, 1972, B.A., College of Business Sciences, 1965, B.S., Bowling Green State University, 1971

Fegely, Karen, J, Clinical Assistant Professor, M.S.N., Kennesaw State University, 2009, B.S.N., Minnesota State University Moorhead, 2001

Fein, Melvyn, L, Professor, Ph.D., The City University of New York, 1983, M.Phil., The City University of New York, 1981, B.A., Brooklyn College, 1963

Feito, Yuri, Associate Professor, Ph.D., The University of Tennessee at Knoxville, 2010, M.P.H., Nova Southeastern University, 2007, M.S., Barry University, 2001, B.S., Barry University, 2000

Fenton, Peter, W, Assistant Professor, J.D., Emory University, 1979, B.S., Georgia State University, 1974

Ferguson, A., N, Associate Professor, Ph.D., University of Louisville, 2011, M.S., The University of Georgia, 2004, B.S., The University of Georgia, 2002, B.S., The University of Georgia, 2002

Ferreira, Daniel, R, Assistant Professor, Ph.D., University of Connecticut, 2012, M.S., University of Connecticut, 2008, B.S., University of California, Davis, 2001

Figueiredo, Sergio, C, Associate Professor, Ph.D., Clemson University, 2011, M.A., Marshall University, 2007

Figuroa, Neysa, O, Assistant Professor, Ph.D., Purdue University, 2003, M.A., Purdue University, 1997, B.S., Purdue University, 1987

Fisher, Jonathan, K, Assistant Professor, M.F.A., Ohio State University, The, 2003, B.F.A., University of North Carolina, 2001

Flaggs, Darolyn, A, Assistant Professor, Ph.D., Texas State University, 2018, M.Ed., Texas State University, 2012, B.S., Texas Southern University, 2009

Ford, Jillian, C, Associate Professor, Ph.D., Emory University, 2011, M.A.T., University of Virginia, 2001, B.A., University of Virginia, 2001

Forrester, William, R, Professor, Ph.D., The University of Tennessee, 1986, M.B.A., The University of Tennessee, 1979, B.S., The University of Tennessee, 1970

Fowler, Allan, Associate Professor, Ph.D., Auckland University of Technology, 2015, M.B.A., Royal Melbourne Institute of Technology, 1995, M.Ed., University of Southern Queensland, 2007, B.B.A., Royal Melbourne Institute of Technology, 1991

Fowler, Joel, C, Associate Professor, Ph.D., California Institute of Technology, 1984, M.S., Emory University, 1980, B.S., Emory University, 1980

Fox, Dana, L, Professor, Ph.D., University of Missouri-Columbia, 1991, M.S.Ed., University of Central Arkansas, 1984, B.S.Ed., University of Central Arkansas, 1979

Frank, Timothy, Assistant Professor, Bachelor of Architecture, Virginia Polytechnic Institute and State University, 2000, M.ARCH, Georgia Institute of Technology, The, 2004

Franke, Volker, C, Professor, Ph.D., Syracuse University, 1997, M.A., Syracuse University, 1994, M.A., Johannes Gutenberg - Universitat Mainz, 1990, M.P.A., North Carolina State University, 1992

Frankel, Michael, Senior Lecturer, M.S., The Georgia Institute of Technology, 2000, B.S., Muhlenberg College, 1998

Franklin, Dennis, M, Assistant Professor, Ph.D., Georgia State University, 2017, M.S., University of Tennessee - Knoxville, The, 2012, B.S., Southern Polytechnic State University, 2009

Frinzi, Pamela, S, Professor, M.S., Southern College of Technology, 1994, B.E.T., Southern College of Technology, 1983

Fuller, Julia, S, Associate Professor, Ed.D., University of Florida, 2011, Ed.S., University of South Florida, 2008, M.A., University of South Florida, 1996, B.S., University of South Florida, 1993

Fulton, Gabrielle, T, Assistant Professor, M.F.A., Northwestern University, 2010, B.A., Columbia University in the City of New York, 1997

Funk, M, L, Professor, Ph.D., Capella University, 2005, M.Ed., East Carolina University, 1994, B.S., The University of North Carolina at Chapel Hill, 1991

Faculty G - M

Gaines, Rachel, Assistant Professor, Ph.D., University of Texas - Austin, 2018, M.Ed., University of Massachusetts Boston, 2012, B.A., Connecticut College, 2007

Gainey, Barbara, S, Professor, Ph.D., University of South Carolina at Columbia, 2003, M.A., University of South Carolina at Columbia, 1985, B.A., University of South Carolina at Columbia, 1977

Galloway, Linda, L, Senior Lecturer, Ph.D., Auburn University, 1995, M.Ed., Auburn University, 1988, B.S.Ed., Auburn University, 1985

Gambrell, James, A, Assistant Professor, Ed.D., Portland State University, 2015, M.Ed., Weber State University, 2008, B.A., Brigham Young University, 2003

Ganser, Lisa, R, Assistant Professor, Ph.D., University of Miami, 2009, M.S., Northern Arizona University, 1998, B.S., Saint Mary's College, 1994

Gao, Hongmei, Professor, Ph.D., University of South Florida, 2005, M.A., Brigham Young University, 2000, B.A., Shanghai International Studies University, 1989

Garcia, Audrey, E, Associate Professor, Ph.D., Purdue University, 1996, M.A., Purdue University, 1991, B.A., Anahuac University, 1988

Gardner, Kimberly, D, Associate Professor, Ph.D., Georgia State University, 2008, M.Ed., Georgia State University, 1998, M.S., Kennesaw State University, 2012, B.A., Mercer University, 1991

Gardner, Roberta, P, Assistant Professor, Ph.D., University of Georgia, The, 2013, M.L.I.S., Clark Atlanta University, 2002, B.A., University of Illinois at Urbana-Champaign, 1993

Garner, Ricky, L, Professor, Ph.D., Florida State University, 2000, M.A., Towson University, 1994, BLS, Mary Washington College, 1989

Garofalo, David, Assistant Professor, Ph.D., University of Maryland, 2008, B.S., University of Maryland, 1999

Garrido, Jose, M, Professor, Ph.D., George Mason University, 1996, M.S., University of London, 1982, M.S., George Mason University, 1995, B.S., Universidad De Oriente, 1975

Gayler, Richard, A, Professor, Ph.D., Florida State University, 1976, M.S., Georgia State University, 1990, M.S., Florida State University, 1974, B.S., Northwest Missouri State College, 1971

Geil, Mark, D, Professor, Ph.D., Ohio State University, The, 1997, B.S., North Carolina State University, 1993

Geist, Debra, Senior Lecturer, M.S., Kennesaw State University, 2007, B.S., Kennesaw State University, 2005

Gentile, John, S, Professor, Ph.D., Northwestern University, 1984, M.A., Northwestern University, 1980, M.A., Pacifica Graduate Institute, 2006, B.A., State University College, 1978

Gentry, Jonathan, C, Assistant Professor, Ph.D., Brown University, 2015, M.A., Portland State University, 2007, AM, Brown University, 2008

Gephardt, Katarina, Professor, Ph.D., The Ohio State University, 2003, M.A., The Ohio State University, 1997, B.A., John Carroll University, 1995

Gerda, Monica, S, Lecturer, M.S., James Madison University, 2002, B.S., Southern Illinois University Carbondale, 2000

Gesick, Richard, A, Senior Lecturer, M.S., Southern Polytechnic State University, 2009, B.S., University of West Florida, 1980

Ghadge, Ravi, R, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2013, M.A., Jawaharlal Nehru University, 1998, M.Phil., Jawaharlal Nehru University, 2001, B.A., University of Pune, 1996

Giddens, Elizabeth, J, Professor, Ph.D., The University of Tennessee, 1990, M.A., The University of Tennessee, 1983, B.A., The University of Tennessee, 1980

Giles, Alexander, L, Clinical Assistant Professor, D.N.P., Georgia Southern University, 2016, M.A., State University of West Georgia, 2000, M.S.N., Kennesaw State University, 2010, B.S., Kennesaw State University, 1986, B.S.N., Georgia Southern University, 2009

Gillespie, William, L, Associate Professor, Ph.D., The University of Georgia, 2004, M.A., University of Arkansas, 1997, B.S., Arkansas State University, 1986

Gillette, Ann, B, Professor, Ph.D., Texas A&M University, 1991, M.S., Texas A&M University, 1980, B.B.A., Texas A&M University, 1979

Gilliam, Kenneth, P, Professor, Ph.D., Lehigh University, 1976, M.Ed., The Pennsylvania State University, 1968, M.S., Lehigh University, 1974, B.S., Long Island University, 1964

Gillis, Bryan, P, Associate Professor, Ph.D., Arizona State University, 2007, M.A., Northern Arizona University, 1990, B.A., Arizona State University, 1983

Gillis, Nancy, L, Lecturer, M.A., Northern Arizona University, 1990, B.S., Northern Arizona University, 1985

Gillman, Timothy, J, Lecturer, M.A., Michigan State University, 1993, B.S., Northwestern University, 1979

Ginn, Meredith, K, Lecturer, M.A., Auburn University, 2004, B.A., Auburn University, 2002

Gise Knowlton, Andrea, Assistant Professor, M.F.A., California Institute of the Arts, 2014, B.F.A., Marymount Manhattan College, 2006

Givens, John, W, Assistant Professor, Ph.D., University of Oxford, 2013, M.A., University of California, Berkeley, 2007, B.S., Georgetown University, 2003

Glassmeyer, David, M, Associate Professor, Ph.D., University of Northern Colorado, 2014, M.Ed., Wright State University, 2009, B.S., Wright State University, 2008

Glawtschew, Rebecca, M, Assistant Professor, Ph.D., The University of North Carolina at Chapel Hill, 2012, B.S., Northeastern University, 2005

Glenn, Tristan, L, Assistant Professor, Ph.D., University of South Florida, 2013, M.A., University of South Florida, 2007, B.S., Bethune-Cookman University, 2002

Glover, Ebony, M, Assistant Professor, Ph.D., Emory University, 2010, M.A., Emory University, 2005, B.A., Spelman College, 2002

Goldfine, Bernard, D, Professor, Ph.D., The University of Southern California, 1988, M.A., The University of Southern California, 1984, B.A., University of California, Santa Barbara, 1975

Goldfine, Ruth, A, Professor, Ph.D., Georgia State University, 2005, M.A., University of Dayton, 1995, B.A., University of Dayton, 1986

Golian-Lui, Linda, M, Librarian Professor, Ed.D., Florida Atlantic University, 1998, Ed.S., Florida Atlantic University, 1995, M.S., Florida State University, 1988, B.A., University of Miami, 1986

Gooding, Alice, F, Assistant Professor, Ph.D., University of Tennessee - Knoxville, The, 2017, M.S., The University of Georgia, 2011, B.A., Occidental College, 2008

Goodsite, Michelle, B, Senior Lecturer, M.Ed., Kennesaw State University, 2005, B.S., East Carolina University, 1989

Gordon, Elizabeth, D, Professor, Ph.D., The University of North Carolina at Chapel Hill, 1996, M.A., The University of North Carolina at Chapel Hill, 1992, B.A., The University of North Carolina at Chapel Hill, 1988

Gordon, Scott, E, Professor, Ph.D., Pennsylvania State University, The, 1997, M.S., Pennsylvania State University, The, 1992, B.S., Bowdoin College, 1986

Goss, Stephen, M, Assistant Professor, Ph.D., State University of New York at Buffalo, 2012, M.Ed., State University of New York at Buffalo, 2005, B.A., State University of New York at Buffalo, 2002

Graf, Karen, M, Senior Lecturer, M.A., The University of Georgia, 2007, B.A., Arizona State University, 1998

Grant, Linda, J, Lecturer, Ph.D., University of Georgia, The, 2009, M.A., Montclair State University, 1991

Gratz, Amy, E, Librarian Assistant Professor, M.S., Syracuse University, 2008, B.A., Gustavus Adolphus College, 1984

Gray, Kimberly, C, Professor, Ph.D., University of Virginia, 1998, M.Ed., University of Virginia, 1996, B.A., Mary Baldwin College, 1991

Gray, Thomas, E, Senior Lecturer, M.A., Ball State University, 1977, A.B., Indiana University, 1973

Green, Andrew, W, Lecturer, M.S., Kennesaw State University, 2007, B.S., Kennesaw State University, 2005

Green, Mary, D, Lecturer, Ed.S., The University of Georgia, 1977, M.Ed., The University of Georgia, 1975, B.S.Ed., The University of Georgia, 1974

Greene, Jeffrey, D, Associate Professor, M.F.A., Florida International University, 2006, B.F.A., Emerson College, 2002

Greene, Juanne, Clinical Assistant Professor, D.B.A., Kennesaw State University, 2012, M.L.H.R., The Ohio State University, 1994, B.S., North Carolina Agricultural and Technical State University, 1993

Greensmith, Cameron, Assistant Professor, Ph.D., University of Toronto, 2014, M.A., University of Toronto, 2009, B.A., Brock University, 2008

Gregory, Diana, G, Professor, Ph.D., Florida State University, 2002, M.S., Florida State University, 1998, B.F.A., San Francisco Art Institute, 1972

Gregory, Sarita, M, Assistant Professor, Ph.D., The University of Chicago, 2003, M.A., The University of Chicago, 1996

Greil, Rachel, H, Senior Lecturer, B.A., Millsaps College, 1973, AM, University of Missouri-Columbia, 1975

Greipsson, Sigurdur, Associate Professor, Ph.D., University of East Anglia, 1992, M.S., Queen's University at Kingston, 1989, B.S., University of Iceland, 1986

Griffin, Melanie, C, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2001, M.S., University of Illinois at Urbana-Champaign, 1998, B.S., Jackson State University, 1994

Griffiths, William, G, Associate Professor, Ph.D., University of Florida, 2004, M.S., University of Florida, 2001, B.S., University of Florida, 2000

Grindel, Patricia, Senior Lecturer, M.A., Point Park University, 1987, B.A., Point Park University, 1980

Grooms, Tony, M, Professor, M.F.A., George Mason University, 1984, B.A., The College of William and Mary, 1978

Gruss, Amy, B, Assistant Professor, Ph.D., University of Florida, 2013, B.S.E.E., University of Florida, 2009

Guerra, Paula, P, Associate Professor, Ph.D., Arizona State University, 2011, M.Ed., Arizona State University, 2007, B.A., Uruguay National Teacher's Institute, 2001

Guerra-Zubiaga, David, A, Assistant Professor, Ph.D., Loughborough University, 2004, M.S., Instituto Tecnológico y De Estudios Superiores De Monterrey, 1996, M.S.E., Instituto Tecnológico y De Estudios Superiores De Monterrey, 1992

Guglielmi, Luc, D, Associate Professor, Ph.D., University of Louisiana at Lafayette, 2004, M.A., University of Louisiana at Lafayette, 2001, B.A., Institut d'Enseignement Supérieur Pédagogique du Hainaut Occidental, 1996

Guglielmo-Colabelli, Letizia, Professor, Ph.D., Georgia State University, 2009, M.A., Middle Tennessee State University, 2001, B.A., Auburn University, 1998

Guillory, Nichole, A, Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2005, M.Ed., University of Louisiana at Lafayette, 1998, B.S., Louisiana State University and Agricultural and Mechanical College, 1993

Guimaraes, Ana, B, Librarian Associate Professor, M.S., Syracuse University, 2007

Gulley, Jeremy, R, Associate Professor, Ph.D., The University of Georgia, 2009, B.S., Furman University, 2003

Guo, Rongkai, Assistant Professor, Ph.D., The University of Texas at San Antonio, 2014, MSCS, The University of Texas - Pan American, 2008, B.S., Nanjing University, 2006

Gupta, Mahesh, Professor, Ph.D., Rutgers, The State University of New Jersey, 1990, M.Tech, Indian Institute of Technology, 1986, B.TECH, Indian Institute of Technology, 1984

Gupta, Saurabh, Associate Professor, Ph.D., University of Georgia, The, 2006, M.B.A., University of Georgia, The, 2002

Guramatunhu Cooper, Nyasha, M, Assistant Professor, Ph.D., Gonzaga University, 2013, M.P.A., Georgia College and State University, 2007, B.A., Wesleyan College, 2006, B.A., Wesleyan College, 2006

Gurkas, Hakki, Associate Professor, Ph.D., Purdue University, 2008, M.A., Purdue University, 2002, B.A., Bogazici University, Turkey, 1997

Gurupatham, Sathish Kumar, Assistant Professor, Ph.D., New Jersey Institute of Technology, 2011, M.S., National Institute of Technology, 2003, B.S., Madras University, 1993

Gutierrez, Robert, D, Lecturer, M.A., University of Texas at El Paso, 2008, B.A., University of Texas at El Paso, 2006

Guzzi, Marco, Assistant Professor, Ph.D., Università Degli Studi di Pavia Includes all Schools, 2006, M.S., Università Degli Studi di Pavia Includes all Schools, 2002

Gwaltney, Kevin, P, Associate Professor, Ph.D., North Carolina State University, 2000, M.A., The College of William and Mary, 1993, B.S., The College of William and Mary, 1992

Haack, Karla, K, Lecturer, Ph.D., Georgia Institute of Technology, 2009, B.S., Xavier University of Louisiana, 2003

Habers, Natasha, L, Professor, M.F.A., University of Florida, 2001, B.A., University of South Florida, 1996

Haddad, Hisham Professor, Ph.D., Oklahoma State University, 1992, M.S., Northrop University, 1988, B.S., Yarmouk University, 1986

Haffner, Matthew, D, Professor, M.F.A., Temple University, 1998, B.F.A., The University of Akron, 1995

Haimes-Korn, Kim, Professor, Ph.D., Florida State University, The, 1996, M.A., Florida State University, 1991, B.A., Florida State University, 1984

Hale, Jessica, J, Lecturer, M.A., Stanford University, 2007, M.S.M., University of West Georgia, 2012, B.A., San Francisco State University, 2005

Hales, Michael, E, Assistant Professor, Ph.D., Georgia State University, 2003, M.S., Georgia State University, 1997, B.S., Kennesaw State University, 1994

Hallward, Maia, G, Professor, Ph.D., American University, 2006, B.A., University of Richmond, 1998

Halstead-Nussloch, Richard, Professor, Ph.D., University of Michigan Ann Arbor, The, 1978, B.A., Macalester College, 1971

Ham, Chan, H, Professor, Ph.D., University of Central Florida, 1995, M.S.E.E., University of Central Florida, 1991, B.E., Dongguk University, 1982

Han, Meng, Assistant Professor, Ph.D., Georgia State University, 2017, M.S., Georgia State University, 2017, M.S., Heilongjiang University, 2012, B.S., Heilongjiang University, 2009

Hand, Lindsey, J, Lecturer, M.A., University of Nevada, Las Vegas, 2010, B.A., Kennesaw State University, 2006

Hankey, Leslie, G, Lecturer, M.S., Southern Polytechnic State University, 2010, B.B.A., University of Georgia, The, 1979

Hanks, Christopher, C, Lecturer, M.B.A., San Jose State University, 1994

Hansen, Jon, M, Librarian Associate Professor, M.Ed., The University of Georgia, 1994, M.L.S., Indiana University Bloomington, 1996

Hardigree, Christian, E, Professor, J.D., Mercer University, 1996

Hardy, Susan, M, Senior Lecturer, M.S., Brigham Young University, 1986, B.S., Brigham Young University, 1982

Hariharan, Govind, Professor, Ph.D., The State University of New York at Buffalo, 1991, M.A., University of Delhi, 1984, B.A., University of Kerala, 1981

Harmon, William, K, Professor, D.B.A., The University of Tennessee at Knoxville, 1982, M. Acc., The University of Tennessee at Knoxville, 1980, B.S.B.A., The University of Tennessee at Knoxville, 1977

Harper, Michael, T, Associate Professor, Ph.D., University of Louisville, 1998, M.A., Emporia State University, 1990, B.G.S., The University of Kansas, 1988

Harr-Lagin, Kelsey, A, Lecturer, M.A., University of Northern Iowa, 2008, B.A., University of Northern Iowa, 2006

Harris, Thomas, L, Lecturer, Ph.D., Florida State University, 2017, M.M., University of Missouri-Kansas City, 2009, B.M.E., Michigan State University, 2007

Harris Cox, Rochelle, L, Senior Lecturer, Ph.D., University of Nebraska-Lincoln, 2005, M.A., East Tennessee State University, 1996, B.A., Carson-Newman College, 1994

Hartin, Travis, L, Assistant Professor, Ph.D., Kent State University, 2014, M.A., Kent State University, 2012, B.A., University of Alabama, 2009

Haseltine, John, N, Associate Professor, Ph.D., University of Pennsylvania, 1988, B.A., University of Pennsylvania, 1981

Hashas-Degertekin, Mine, H, Associate Professor, Ph.D., North Carolina State University, 2004, M.S., Istanbul Technical University, 1999, B.A., Yildiz Technical University, 1995

Hauge, Xueya, Associate Professor, Ph.D., Oregon Health Sciences University, 1993, M.S., Northwestern Normal University, 1985, B.S., Northwestern Teachers College, 1982

Hayes, Sherrill, W, Professor, Ph.D., Newcastle University, 2005, M.S., The University of North Carolina at Greensboro, 2000, B.S., The University of North Carolina at Greensboro, 1997

He, Jing, Associate Professor, Ph.D., Georgia State University, 2012, M.S., Georgia State University, 2012, M.S., Utah State University, 2002, B.S., Wuhan Institute of Technology, 2000

Head, Michelle, L, Associate Professor, Ph.D., University of Connecticut, 2011, M.S., University of Connecticut, 2010, B.S., The State University of New York at Cortland, 2005, B.S., The State University of New York at Cortland, 2005

Hedeen, Timothy, K, Professor, Ph.D., Syracuse University, 2001, M.A., Syracuse University, 1993, B.A., Syracuse University, 1991

Hedrick, Alison, B, Senior Lecturer, M.S., Kennesaw State University, 2007, B.S., Purdue University, 2002

Helms, Jeffrey, L, Professor, Psy.D., Spalding University, 1999, M.A., Spalding University, 1996, B.S., University of South Carolina at Spartanburg, 1993

Hendrix, Jerald, D, Professor, Ph.D., Northwestern University, 1984, B.A., Shorter College, 1979

Henley, Amy, B, Associate Professor, Ph.D., The University of Texas at Arlington, 2005, M.B.A., The University of Southern Mississippi, 1998, B.S.B.A., The University of Southern Mississippi, 1997

Henry, Robert, B, Assistant Professor, D.M.A., University of Maryland at College Park, 2008, M.M., University of Maryland at College Park, 2001, B.M., Kennesaw State University, 1999

Herbel, Jerry, E, Associate Professor, Ph.D., University of Oklahoma, The, 2001, M.P.A., University of Oklahoma, The, 1989, B.S., Emporia State University, 1983

Herbert, James, I, Professor, Ph.D., Yale University, 1985, M.A., Yale University, 1974, M.Phil., Yale University, 1976, B.S., Fayetteville State University, 1962

Hermanson, Dana, R, Professor, Ph.D., University of Wisconsin-Madison, 1993, B.B.A., The University of Georgia, 1986

Hermanson, Heather, M, Professor, Ph.D., University of Wisconsin-Madison, 1993, B.S., University of Illinois at Urbana-Champaign, 1987

Hesser, Marcia, Lecturer, Ph.D., Clemson University, 2011, M.S., Clemson University, 2006, B.S., Clemson University, 2004

Hester, Garrett, M, Assistant Professor, Ph.D., Oklahoma State University, 2016, M.S., Oklahoma State University, 2012, B.S., Northeastern State University, 2010

Hiatt, Mark, S, Assistant Professor, Ph.D., Northcentral University, 2009, M.M., Northwestern University, 1989

Hicks, Willajoya, C, Associate Professor, Ph.D., Syracuse University, 2000, M.Ed., Georgia State University, 1995, B.A., Hampton University, 1992

Hightower, Linda, A, Professor, Ed.D., The University of Georgia, 2000, M.V.A., Georgia State University, 1982, B.A., Columbus College, 1974

Hill, Kenneth, Senior Lecturer, M.A., The George Washington University, 1993, B.M., The University of South Alabama, 1979

Hill, Rebecca, N, Professor, Ph.D., University of Minnesota, 2000, B.A., Wesleyan University, 1991

Hill, Sheila, D, Lecturer, M.E., North Carolina State University, 2002, B.S., University of North Carolina - Chapel Hill, 1987, B.S.E.E., Southern College of Technology, 1997

Hillen, Amy, F, Associate Professor, Ed.D., University of Pittsburgh, 2005, B.S., University of Pittsburgh, 1996

Ho, Hai, T, Associate Professor, Ph.D., University of Colorado at Boulder, 1994, M.S., University of Colorado at Denver, 1989, B.S.E.E., University of Colorado at Boulder, 1988

Hoffman, Ashley, T, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2015, M.A., University of North Carolina - Chapel Hill, 2009, B.A., Middlebury College, 2007

Hoganson, Kenneth, E, Professor, Ph.D., Auburn University, 1997, M.S., The University of North Carolina at Charlotte, 1990, B.S., North Dakota State University, 1980, B.S., Augusta State University, 1987

Hold, Judith, L, Assistant Professor, Ed.D., The University of Alabama, 2013, M.S., University of Illinois at the Medical Center, 1983, M.S.N., University of West Georgia, 2008, B.S., Rush University, 1976

Holdzkom, Marianne, Associate Professor, Ph.D., Ohio State University, The, 1995, M.A., Ball State University, 1988, B.S., University of Evansville, 1984

Holler, Emily, K, Senior Lecturer, M.A., Eastern Illinois University, 1999, B.A., Eastern Illinois University, 1997

Holliday, Sarah, H, Associate Professor, Ph.D., Auburn University, 2003, Master of Applied Mathematics, Auburn University, 1999, B.A., Converse College, 1997

Hollingsworth, Carole, L, Lecturer, D.B.A., Kennesaw State University, 2015, M.B.A., Kennesaw State University, 1995, M.I.T., The University of Georgia, 2011, B.S.B.A., University of South Carolina at Columbia, 1993

Holm, Christina, E, Librarian Assistant Professor, M.L.S., University of California, Los Angeles, 2013

Holmes, Sarah, W, Assistant Professor, Ph.D., University of California, Riverside, 2013, M.A., Mills College, 2002, B.A., Scripps College, 1996

Holtendorff, Chris, E, Clinical Assistant Professor, M.S., College of Charleston, 2006, B.S., Clemson University, 2003

Hong, Duanping, Assistant Professor, Ph.D., University of Pittsburgh, 2017, M.S., University of Utah, 2011, M.S., University of Utah, 2009, B.S., Tsinghua University, 2006

Hoosier, Jennifer, L, Lecturer, M.A., Azusa Pacific University, 2008, B.M., University of Florida, 2000

Hopper, Keith, B, Professor, Ph.D., Georgia State University, 2000, M.A., Boise State College, 1984, B.S., Boise State College, 1982

Horse, Irish, Assistant Professor, M.B.A., DeVry University, 2003, B.S., Tuskegee University, 1998

Horton, Donald, D, Associate Professor, M.S., Michigan Technological University, 1972, B.S., Michigan Technological University, 1970

Howard, Laura, W, Lecturer, Ph.D., Georgia State University, 2015, M.A., Auburn University, 2007, B.A., Mercer University, 2005

Howes, Daniel, R, Lecturer

Howes, Pauline, A, Associate Professor, Ph.D., The University of Georgia, 2010, M.B.A., Emory University, 2005, B.A., The University of North Carolina at Chapel Hill, 1977

Howrey, Shannon, T, Associate Professor, Ph.D., Georgia State University, 2005, M.Ed., Texas A&M University - Commerce, 1996

Howton, Amy, D, Associate Professor, M.F.A., Florida State University, 1977, B.F.A., Florida State University, 1976

Hu, Wenhua, Assistant Professor, Ph.D., University of Alabama, The, 2017, M.S., Central South University, China, 2011, B.S., Shaaxi Normal University, 2009

Huang, Rongbing, Professor, Ph.D., University of Florida, 2004, M.S., Virginia Polytechnic Institute and State University at Blacksburg, 1998

Huang, Sha, Assistant Professor, Ph.D., University of Iowa, 2016, M.A., Sichuan Normal University, 2006, M.A., University of Iowa, 2014, B.A., Sichuan Normal University, 2003

Huang, Xiao, Professor, Ph.D., University of California, Riverside, 2005, M.A., University of California, Riverside, 2003

Hubbard, Daphne, W, Associate Professor, Ph.D., The University of Alabama, 2001, M.A., The University of Alabama, 1993, B.A., The University of Alabama, 1990

Huddlestun, Amos, C, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2013, M.M.Ed, University of Georgia, The, 1984, B.M.E., Shorter College, 1980

Hudson, Martin, L, Associate Professor, Ph.D., University of Sussex, 2000, B.S., University of Hertfordshire, 1991

Huet, Kevin, Lecturer, M.S., Armstrong Atlantic State University, 2015, B.S., Georgia Southwestern State University, 2012

Hummel, Andrew, Assistant Professor, Ph.D., Oregon State University, 2014, M.S., Oregon State University, 2011, B.S., Tulane University, 2007

Humphrey, Rosemary, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2017, B.A., Emerson College, 2003

Hung, Chih-Cheng, Professor, Ph.D., University of Alabama, The, 1990, M.S., University of Alabama, The, 1986, B.S., Soochow University, 1978

Hurgobin, Yossina, D, Assistant Professor, Ph.D., Syracuse University, 2016, M.A., Syracuse University, 2011, M.P.A., Syracuse University, 2009, M.Phil., Syracuse University, 2012, B.A., University of Mississippi, The, 2005

Hutchins, Amber, L, Associate Professor, Ph.D., The University of Utah, 2008, M.A., Arizona State University, 2002, B.A., Arizona State University, 1999

Hutchins, Jennifer, D, Assistant Professor, Ph.D., University of Memphis, 2014, M.B.A., University of St. Thomas, 2005, B.S., Oregon State University, 1994

Hutchinson, Richard, N, Lecturer, Ph.D., The University of Arizona, 2003, M.A., The University of Arizona, 1995, B.A., Northern Illinois University, 1981

Hwang, Kristine, H, Associate Professor, M.Ed., Hanyang University, 1988, M.F.A., Rochester Institute of Technology, 1998, B.A., San Diego State University, 1994

Id-Deen, Lateefah, Assistant Professor, Ph.D., Michigan State University, 2015, M.S., Iowa State University, 2005, B.S., University of Arkansas, 2003

Ilksoy, Erhan, Senior Lecturer, M.S., Georgia Institute of Technology, The, 1993, M.S., Mississippi State University, 1984, B.S., Bogazici University, Turkey, 1978

Ingersoll, Erin, L, Associate Professor, Ph.D., The University of Georgia, 2008, M.A., Georgia State University, 2005, A.B., The University of Georgia, 1999, B.S., Kennesaw State University, 2003

Ingram, Katherine, H, Assistant Professor, Ph.D., Georgia State University, 2010, M.S., University of Nevada, Las Vegas, 1998, B.S., Tulane University, 1993

Ingram, Ulrike, K, Lecturer, M.A., Georgia State University, 2005, B.A., Kennesaw State University, 1998

Inks, Scott, A, Associate Professor, Ph.D., University of Memphis, 1997, M.B.A., Ball State University, 1993, B.S., Purdue University, 1987

Jackson, Dorian, L, Assistant Professor, Ph.D., University of Texas - Austin, 2015, M.A., University of Georgia, The, 2009, B.B.A., University of Georgia, The, 2005

Jackson, Paula, Professor, Ph.D., University of California, Los Angeles, 1996, B.S., University of Simon Bolivar, 1986

Jackson, Tyrone, M, Lecturer, M.M., Georgia State University, 2013, B.A., The University of New Orleans, 2007

Jackson, Virginie, Lecturer, Ed.D., Nova Southeastern University, 2014, M.S., Florida International University, Broward/Davie Campus, 2009, B.S., Florida State University, 2003

Jacobs, Jennifer, S, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2018, M.S., Radford University, 2015, B.S., Valdosta State University, 2013

Jaramillo, Nathalia, E, Professor, Ph.D., University of California, Los Angeles, 2007, M.Ed., Harvard University, 2000, B.A., University of California, Riverside, 1997

Jean-Sigur, Raynice, E, Professor, Ph.D., The University of Texas at Austin, 1999, M.S., University of North Texas, 1994, B.A., Xavier University, 1993

Jenkins, Larry, B, Associate Professor, M.S.E.E., Georgia Institute of Technology, The, 1989, B.S.E.E., University of Missouri - Rolla, 1984

Ji, Jun, Professor, Ph.D., The University of Iowa, 1993, M.S., Shanghai Teachers' University, 1985, B.S., Shanghai Teachers' University, 1982

Jiang, Binbin, Professor, Ed.D., University of California, Davis, 1999, M.A., Fresno Pacific University, 1996, B.A., Dalian Foreign Languages Institute, 1985

Jimenez, Albert, M, Assistant Professor, Ph.D., University of Georgia, The, 2014, M.S., Mississippi State University, 2004, B.A., Georgia Regents University, 2000

Jin, Wenhua, Associate Professor, Ph.D., The University of Texas at Arlington, 2008, M.A., Liaoning University, 1997, B.A., Liaoning University, 1992

Jin, Yi, Assistant Professor, Ph.D., Iowa State University, 2017, M.A., Tianjin University, 2010, B.A., Tianjin University, 2007

Joffe, David, N, Associate Professor, Ph.D., Northwestern University, 2004, M.S., University of British Columbia, 1994, B.S., University of Toronto, 1992

Johnson, April, Assistant Professor, D.Phil., State University of New York at Stony Brook, 2014, M.S., Georgia Southern University, 2008

Johnson, Arvin, Assistant Professor, Ed.D., University of North Florida, 2008, M.Ed., University of North Florida, 2001, B.A., University of North Florida, 1998

Johnson, David, M, Professor, Ph.D., Purdue University, 1999, M.A., Texas A&M University, 1994, B.A., University of Dallas, 1990

Johnson, John, D, Associate Professor, Ph.D., The University of Southern Mississippi, 2004, M.S., The University of Southern Mississippi, 2002, B.S., Auburn University at Montgomery, 1999

Johnson, Joshua, M, Lecturer, Ph.D., State University of New York at Stony Brook, 2014, B.A., Creighton University, 2008

Johnson, Monique, R, Lecturer, M.A., Pacific Oaks College, 2012, B.S., San Diego State University, 2005

Johnson, Ping, H, Professor, Ph.D., Southern Illinois University at Carbondale, 1997, M.S., Western Illinois University, 1994, B.S., Bengbu Medical College, 1982

Johnson, Sarah, Lecturer, M.A.P.W., Kennesaw State University, 2009, B.S., Kennesaw State University, 2003

Johnson, Wendell, A, Lecturer, Ph.D., Northwestern University, 1994, M.A., Northwestern University, 1984

Jonaidi, Mohammad, Assistant Professor, Ph.D., University of Sydney, 1998, M.S., Amirkabir University of Technology (Tehran Polytechnic), 1989, B.S.E., Amirkabir University of Technology (Tehran Polytechnic), 1985

Jones, David, E, Professor, Ph.D., The University of Hawaii at Manoa, 1988, M.A., Washington State University, 1975, A.B., Adrian College, 1973

Jones, Jackie, H, Professor, Ed.D., The University of Georgia, 2005, M.S.N., Vanderbilt University, 1991

Jones, Sandra, H, Senior Lecturer, M.B.A., Mercer University, 2005

Jones, Tonya, C, Assistant Professor, M.S., Emory University, 1993, B.S., Georgia Southern University, 1991

Jordan, Esther, S, Associate Professor, Ph.D., University of Georgia, The, 2010, M.A., University of Georgia, The, 2005, B.A., University of California, Los Angeles, 1998

Jordan, Jeannette, Lecturer, M.A., Universitat Hamburg University of Hamburg, 2012, M.Div., Mercer University, 2006, B.S., Queens University of Charlotte, 1992

Jorin Abellan, Ivan, M, Professor, Ph.D., University of Valladolid, 2007, B.S.Ed., University of Valladolid, 2001

Joseph, Lori, A, Lecturer, M.A.T., Kennesaw State University, 2012, B.S., The University of Alabama, 1993

Juneja, Parminder, K, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2010, Bachelor of Architecture, Chandigarh College of Architecture, 1996, M.Tech, Indian Institute of Technology, 2000

Jung, Edward, Associate Professor, Ph.D., University of Minnesota, 1994, B.S., University of Minnesota, 1987

Jung, Kyunghun, Assistant Professor, Ph.D., University of New Mexico, 2013, M.A., Korea University - Seoul, 2006, B.A., Korea University - Seoul, 2004

Jurchenko, Jacqueline, A, Senior Lecturer, M.S., Michigan State University, 1996, B.A., Barat College, 1991

Kalamas, Maria, Professor, Ph.D., Concordia University, 2008, M.B.A., Clarkson University, 1996, M.S., Clarkson University, 1997, B.A., McGill University, 1991, B.S., McGill University, 1989

Kaledin, Martina, Associate Professor, Ph.D., Slovak Technical University, 1995, M.S., Slovak Technical University, 1991, B.S., Slovak Technical University, 1991

Kane, Victor, E, Associate Professor, Ph.D., Florida State University, 1975, M.B.A., The University of Tennessee, 1982, B.S., Emory University, 1970

Kang, Charles, Y, Lecturer, Ph.D., University of California - Irvine, 2007, M.S., University of California - Irvine, 2004, B.S., Washington State University, 2001

Kang, Lu, Associate Professor, Ph.D., Wesleyan University, 2004, B.S., Xiamen University, 1994

Kang, Mingon, Assistant Professor, Ph.D., University of Texas - Austin, 2015, M.S., University of Texas - Austin, 2010, B.S., Hanyang University, 2006

Kang, Sunny, Lecturer, M.S., California State University - Pajona, 2004, B.S., University of California, Santa Barbara, 1999

Kang, Taewoo, Lecturer, M.A., Washington State University, 2013, M.A., Dong-A University, 2012, B.A., Dong-A University, 2010

Kantor, Sarah, Librarian Assistant Professor, M.L.I.S., Dominican University, 2016, B.A., University of Wisconsin - Madison, 2006

Karim, Mohammed, A, Associate Professor, D.Eng., Cleveland State University, 2000, M.S., Bangladesh University of Engineering and Technology, 1992, B.S.C.E., Bangladesh University of Engineering and Technology, 1989

Karimi, Zamila, R, Lecturer, Bachelor of Architecture, Southern California Institute of Architecture, 1982, M.ARCH, McGill University, 2013, M.F.A., University of Georgia, The, 2007

Kastello, Lisa, L, Assistant Professor, Ed.D., Northern Illinois University, 2011, M.S., Illinois State University, 1994, B.S., Illinois State University, 1987

Katzman, Brett, E, Professor, Ph.D., Duke University, 1996, M.A., Duke University, 1993, B.S., Georgia State University, 1991

Keating, Kenneth, Senior Lecturer, M.S., Emory University, 2008, M.S., Georgia State University, 2004, B.S., The Pennsylvania State University, 1993

Keefe, Alison, M, Associate Professor, Ph.D., Auburn University, 2002, M.S., Auburn University, 1998, B.S., Auburn University, 1995

Keen, Diane, L, Clinical Assistant Professor, D.S.N., Kennesaw State University, 2017, M.S.N., Kennesaw State University, 2011, B.S.N., Kennesaw State University, 2008

Kehler, David, T, Professor, D.M.A., The University of Texas at Austin, 2009, M.M., Michigan State University, 1992, B.M., Michigan State University, 1987

Kelani, Zeynep, A, Lecturer, M.S., Southern Polytechnic State University, 2002, B.S., Mimar Sinan University, 1994

Keleher, Michael, Associate Professor, Ph.D., Georgia State University, 2013, M.A., University of South Carolina, 1997, B.A., University of South Florida, 1993

Kelley, Jennifer, M, Lecturer, M.S., Georgia State University, 2011, B.S., University of West Georgia, 2008

Kelly-Jackson, Charlease, P, Associate Professor, Ed.D., University of South Carolina, 2008, M.A.T., South Carolina State University, 2004, B.S., Claflin University, 1998

Keltner, Stacy, K, Professor, Ph.D., The University of Memphis, 2002, B.A., University of Evansville, 1997

Kennedy, Charles, R, Lecturer, M.B.A., Liberty University, 2010, M.S.S.E, Kennesaw State University, 2016, B.S., Southern Polytechnic State University, 1989

Kennett, Naynette, M, Lecturer, M.S.W., California State University, Long Beach, 2006, B.S., California State University, Fullerton, 2002

Kersey, Timothy, E, Lecturer, Ph.D., Indiana University, 2011, B.A., University of Illinois at Springfield, 2001

Keyser, Robert, S, Assistant Professor, Ph.D., University of Tennessee Knoxville, The, 2008, M.B.A., East Tennessee State University, 1992, M.S., University of Tennessee Knoxville, The, 2005, B.S.B.A., University of Tennessee Knoxville, The, 1988

Khalid, Adeel, S, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2006, M.S., Georgia Institute of Technology, The, 2004, M.S., Georgia Institute of Technology, The, 2005, B.S., GIK Institute of Technology, 2000

Khayati, Amine, Clinical Assistant Professor, Ph.D., Southern Illinois University Carbondale, 2010, M.S., University of Memphis, 2003, B.A., University of Tunis, 2000

Khazaei, Ali, Professor, Ph.D., Tehran Azad University, 1998, M.S.M.E., University of Tehran, 1987, B.S., University of Tehran, 1982

Khote, Nihal, Assistant Professor, Ph.D., University of Georgia, The, 2014, M.Ed., Kennesaw State University, 2008, B.S., Kennesaw State University, 2004

Kidonakis, Nikolaos, Professor, Ph.D., The State University of New York at Stony Brook, 1996, MAST, University of Cambridge, 1991, B.S., California Institute of Technology, 1990

Kiernan, Philip, J, Assistant Professor, Ph.D., Ruprecht-Karls Universitat, 2007, M.A., University of Cincinnati, 2003, B.A., University of Western Ontario, The, 2001

Kim, Dong-Hyun, Associate Professor, Ph.D., University of Texas at Dallas, The, 2010, M.S., Hanyang University, 2005, B.S., Hanyang University, 2003

Kim, Heeman, Associate Professor, Ph.D., Temple University, 2005, M.A., Northern Illinois University, 2000, B.A., The University Of Toledo, 1997

Kim, Helen, H, Professor, M.M., The Juilliard School, 1997, B.M., The Juilliard School, 1995

Kim, Hyun, C, Librarian Associate Professor, M.L.S., Valdosta State University, 2007, B.A., University of Washington, 1992

Kim, Jihye, Assistant Professor, Ph.D., Georgia State University, 2011, M.S., Georgia State University, 2004, B.S., San Diego State University, 1997

Kim, Jin, H, Assistant Professor, Ph.D., University of Georgia, The, 2009, M.Ed., University of Georgia, The, 2004, B.S.Ed., Ewha Women's University, 1999

Kim, Na Lae, Assistant Professor, Ph.D., University of Minnesota, 2016, B.A., Handong Global University, 2006

Kim, Yang Hee, Associate Professor, Ph.D., University of Maryland, 1996, M.A., Ewha Women's University, 1988, B.A., Ewha Women's University, 1986

Kimitei, Symon, K, Senior Lecturer, M.S., Georgia State University, 2008, B.S., Kennesaw State University, 1998, B.S., Kennesaw State University, 1999

King, David, A, Professor, Ph.D., Georgia State University, 2001, M.A., Georgia State University, 1992, A.B., The University of Georgia, 1990

King, Stephen, H, Associate Professor, Ph.D., The University of Georgia, 2009, M.S.W., The University of Georgia, 1990, B.A., Warren Wilson College, 1985

King McKenzie, Ethel, L, Associate Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 1999, Ed.S., Louisiana State University and Agricultural and Mechanical College, 1993, M.A., Louisiana State University and Agricultural and Mechanical College, 1992, B.Ed., University of the West Indies Mona Campus, 1982

Kirby, Vivian, S, Senior Lecturer, M.A., Boston University, 1999, M.B.A., Boston University, 1999, B.S., San Jose State University, 1997

Kirk, Alan, B, Professor, Ph.D., Florida State University, 1986, M.S.W., The University of Alabama, 1972, B.S., Samford University, 1970

Kirk, Nancy, J, Senior Lecturer, Ph.D., The Georgia Institute of Technology, 1984, B.S., Emory University, 1977

Kirsner, Beth, R, Associate Professor, Ph.D., The University of Arizona, 2005, M.A., The University of Arizona, 1999, B.A., Amherst College, 1988

Kirwan, James, V, Assistant Professor, Ph.D., Illinois State University, 2015, M.A., Eastern Illinois University, 2009, B.A., Eastern Illinois University, 2007

Klingler, Lori, Clinical Assistant Professor, Ph.D., University of Maryland at College Park, 1984, B.S., Texas A&M University, 1979

Kluszczewicz, Brian, M, Associate Professor, Ph.D., Auburn University, 2014, M.S., University of Florida, 2010

Knapp, Denise, R, Lecturer, M.S., Oklahoma State University, 2013, B.S., Kansas State University, 2011

Knox, Lori, A, Lecturer, Ph.D., Louisiana State University and A & M College, 2007, M.A., Louisiana State University and A & M College, 2002

Kochman, Ladd, M, Professor, D.B.A., University of Kentucky, 1980, M.B.A., West Virginia University, 1972, B.S., West Virginia University, 1967

Koepfer Lock, Elisabeth, Assistant Professor, M.F.A., California Institute of Arts, 1993, B.F.A., California Institute of Arts, 1991

Koether, Marina, Professor, Ph.D., Queen's University at Kingston, 1994, B.S., McMaster University, 1989

Kokil, Uttam, Assistant Professor, M.F.A., Rochester Institute of Technology, 2004, B.F.A., University of Bombay, 1997

Kolenko, Thomas, A, Associate Professor, Ph.D., University of Wisconsin-Madison, 1986, M.B.A., Michigan State University, 1975, B.I.A., General Motors Institute, 1974

Koz, Olga, O, Librarian Associate Professor, D.Mgt., Colorado Technical University, 2014, M.L.S., Emporia State University, 2010

Kperogi, Farooq, A, Associate Professor, Ph.D., Georgia State University, 2011, M.S., University of Louisiana at Lafayette, 2006, B.A., Bayero University Kano, 1996

Kraegel, Rebecca, H, Lecturer, M.A.P.W., Kennesaw State University, 2012, B.A., Mercer University, 1987

Kremer, Mark, S, Professor, Ph.D., The University of Chicago, 1995, M.A., University of Toronto, 1986, B.A., University of Toronto, 1985

Krueger, Charae, Lecturer, B.M., New England Conservatory of Music, 1992

Kuemmerle, Daniel, L, Lecturer, M.S., Georgia Institute of Technology, The, 1999, B.S., University of Alabama, The, 1997

Kuhel, Karen, A, Associate Professor, Ph.D., University of Florida, 2005, M.A., American University, 1995, B.A., The Catholic University of America, 1993

Kulasiri, Ratnappuli, L, Assistant Professor, Ph.D., University of Cincinnati, 2005, M.S., University of Cincinnati, 1999, B.S., University of Colombo, 1996

Kuykendal, Dorothy, L, Senior Lecturer, Ph.D., The University of North Carolina at Greensboro, 2009, M.A., The University of North Carolina at Greensboro, 2004, B.A., Wake Forest University, 2002

Kwon, Jayhyun, Assistant Professor, Ph.D., University of Illinois at Urbana-Champaign, 2007, M.S., University of Illinois, 2001, B.S., Hanyang University, 1999

Lahey, Michael, D, Associate Professor, Ph.D., Indiana University, 2013, M.A., Indiana University, 2006, B.A., University of Florida, 2001

Lamle, Keaton, K, Lecturer, M.A.P.W., Kennesaw State University, 2015, B.A., Cameron University, 2013

Lands, LeeAnn, B, Professor, Ph.D., The Georgia Institute of Technology, 2001, M.A., Florida Atlantic University, 1995, B.S.E., University of Florida, 1991

Lang, Donald, G, Senior Lecturer, M.B.A., Georgia State University, 1988, B.A., Lafayette College, 1975

Langub, Lee, W, Associate Professor, Ed.D., Georgia Southern University, 2005, M.Ed., West Georgia College, 1994, B.S.Ed., The University of Georgia, 1991

Laposata, Matthew, M, Professor, Ph.D., The Pennsylvania State University, 1998, M.S., Bowling Green State University, 1994, B.S., Indiana University of Pennsylvania, 1992

Larisch, Scott, Assistant Professor, M.S.E.E., University of Southern California, 1985, B.S.E.E., University of Colorado at Denver, 1981

Larsen, Carolee, A, Lecturer, Ph.D., Northwestern University, 1996, M.A., The University of Kansas, 1989, B.A., The University of Kansas, 1986

Latino, Peter, G, Lecturer, M.S., The University of Southern Mississippi, 1991, B.A., Louisiana State University, 1989

Latino, Robin, C, Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2004, M.B.A., The University of New Orleans, 1994, B.A., Southeastern Louisiana University, 1992

Laval, Philippe, B, Associate Professor, Ph.D., Emory University, 1998, M.S., Emory University, 1995, B.A., Mercer University, 1986

Lawler, Brian, R, Associate Professor, Ph.D., University of Georgia, The, 2008, M.A., California State University, Dominguez Hills, 1999, M.A., University of Georgia, The, 2006, B.S., Colorado State University, 1992

Lawless, John, Senior Lecturer, B.M., Georgia State University, 1983

Laws, Michael, E, Lecturer, M.S., North Carolina State University, 2006, B.S., North Carolina Agricultural and Technical State University, 2002

Lawson, M, L, Professor, Ph.D., The University of Alabama at Birmingham, 1998, M.P.H., The University of Alabama at Birmingham, 1994, B.S., Florida State University, 1981

Lebaron, Alan, V, Professor, Ph.D., University of Florida, 1988, M.A., University of Maryland at College Park, 1978, B.A., Boise State University, 1974

Lebish, Alan, R, Librarian Professor, M.A., The University of Arizona, 1979, M.L.S., The University of Arizona, 1982, B.A., The University of Arizona, 1981, B.A., Brooklyn College, 1977

Lee, Gang, Professor, Ph.D., University of Florida, 1998

Lee, Hoseon, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2013, M.S., Georgia Institute of Technology, The, 2005, B.S.E.E., Georgia Institute of Technology, The, 2002

Lee, Jeongyi, Assistant Professor, Ph.D., The University of Georgia, 2005, M.A., The University of Texas at Arlington, 2000

Leeper, Thomas, C, Assistant Professor, Ph.D., University of Missouri-Columbia, 2001, B.S., Truman State University, 1995

Lefebvre, Rebecca, K, Senior Lecturer, Ph.D., Kennesaw State University, 2013, M.S., Walden University, 1994, B.S., Rice University, 1986

Leger, Thierry, A, Professor, Ph.D., Washington University, 1995, M.A., Universite De Caen, 1987, B.A., Universite De Caen, 1985, AM, Washington University, 1989, A.S., Universite De Caen, 1984

Lemberg, Mary, T, Lecturer, M.S., Stanford University, 2006, B.S., Cornell University, 2005

Lepadatu, Elena, D, Professor, Ph.D., University of Kentucky, 2007, M.S., University of Bucharest, 2000, B.A., University of Bucharest, 1999, B.A., University of Bucharest, 1998

Lester, Deborah, H, Professor, Ph.D., Texas Woman's University, 1982, M.S., Florida State University, 1976, B.S., Florida State University, 1975

Levy, Aaron, H, Associate Professor, Ph.D., Arizona State University, 2004, M.F.A., Arizona State University, 1994, B.A., Arizona State University, 1991

Lewin, Jonathan, W, Professor, Ph.D., University of Wisconsin-Madison, 1970, M.A., University of Wisconsin-Madison, 1969, B.S., University of the Witwatersrand, 1964, B.S., University of the Witwatersrand, 1962

Lewis, Amelia, C, Lecturer, Ph.D., Auburn University, 2015, M.A., University of West Georgia, 2009, B.A., University of West Georgia, 2006

Lewis, Catherine, M, Professor, Ph.D., The University of Iowa, 1997, M.A., The University of Iowa, 1995, B.A., Emory University, 1990

Li, Chien-Pin, Professor, Ph.D., The University of Iowa, 1988, B.A., National Taiwan University, 1982

Li, Lei, Professor, Ph.D., Georgia State University, 2007, M.S., Georgia State University, 2002, B.S., China University of Mining and Technology, 1995

Li, Lin, Assistant Professor, Ph.D., Columbia University in the City of New York, 2007, M.Phil., Columbia University in the City of New York, 2007, M.S., Columbia University in the City of New York, 2004, B.S., University of Science and Technology of China, 2002

Li, Zhigang, Assistant Professor, Ph.D., University of Central Florida, 2011, M.A., University of Central Florida, 2006, B.E., Lanzhou University, 1999

Lieberman, Robbie, Professor, Ph.D., University of Michigan atAnn Arbor, 1984, AM, University of Michigan atAnn Arbor, 1981

Lindsey, Douglas, B, Assistant Professor, D.M.A., University of Wisconsin-Madison, 2012, M.M., Yale University, 2010, B.M., University of Arkansas, 2008

Link, Tanja, C, Associate Professor, Ph.D., The University of Georgia, 2006, M.A., The University of Georgia, 2001

Liu, Xuepeng, Professor, Ph.D., Syracuse University, 2006, M.A., Syracuse University, 2004, M.A., Renmin University of China, 2001, B.A., Renmin University of China, 1998

Livingston, Molly, A, Lecturer, Ph.D., Georgia State Universtiy, 2015, M.Ed., University of Georgia, The, 2005, B.A., Oglethorpe University, 2003

Lo, Dan, C, Professor, Ph.D., Illinois Institute of Technology, 2001, M.A., National Chung-Hsing University, 1990, M.S., National Taiwan University, 1992

Loe, Terry, W, Professor, Ph.D., The University of Memphis, 1996, M.B.A., Mississippi State University, 1981, B.S., Mississippi State University, 1980

Logan, Monique, C, Lecturer, M.S., Southern Polytechnic State University, 2004, B.A., Spelman College, 1986

Long, Harrison, Professor, M.F.A., Southern Methodist University, 1991, B.F.A., Florida State University, 1988

Loomis, Kimberly, S, Professor, Ed.D., The University of Tennessee, 1992, M.S., The University of Tennessee, 1987, B.S., East Tennessee State University, 1985

Loreto, Giovanni, Assistant Professor, Ph.D., Universita Degli Studi di Napoli Federica II, 2011, Bachelor of Architecture, Universita Degli Studi di Napoli Federica II, 2006

Louten, Jennifer, R, Associate Professor, Ph.D., Brown University School of Medicine, 2006, B.S., Rochester Institute of Technology, 2000

Loverde-Dropp, Jo Ann, M, Lecturer, M.F.A., Spalding University, 2010, B.S., State University College at Brockport, 1991

Lowder, Margaret, L, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2007, M.S., Georgia Institute of Technology, The, 2005, B.S., Georgia Institute of Technology, The, 2001

Lu, Zhongjing, Associate Professor, Ph.D., North Carolina State University, 2002, M.S., North Carolina State University, 1999, B.S., Yunnan University, China, 1978, B.S., Louisiana State University Health Shreveport, 1996

Lundy, Brandon, D, Associate Professor, Ph.D., The State University of New York at Buffalo, 2009, Ph.D., Universite des Sciences et Technologies de Lille, 2009, M.A., The State University of New York at Buffalo, 2005, B.A., University of Pittsburgh, 1998, B.A., University of Pittsburgh, 1998

Luther, Michael, E, Librarian Associate Professor, M.S., Syracuse University, 2010, B.A., Georgia State University, 1999

Lynn, Kathy, A, Senior Lecturer, M.A.P.W., Kennesaw State University, 1997, B.S., Southern Polytechnic State University, 1985

Lyon, Jonathan, T, Associate Professor, Ph.D., University of Virginia, 2007, B.S., Michigan State University, 2002

Lyons, Linda, M, Associate Professor, Ed.D., The University of Georgia, 2013, M.S., Georgia State University, 2003

MacDonald, Leo, T, Associate Professor, Ph.D., University of Western Ontario, 2007, M.S., University of Guelph, 1995, B.S., Ryerson Polytechnic University, 1991

Macenczak, Lee, A, Clinical Assistant Professor, D.B.A., Kennesaw State University, 2014, M.S., Georgia State University, 2011, B.B.A., Georgia State University, 1984

Maddox, Beverly, B, Assistant Professor, Ed.D., The University of Southern Mississippi, 1976, M.S., The University of Southern Mississippi, 1974, B.S., The University of Southern Mississippi, 1969

Maguire, MaryBeth, R, Assistant Professor, D.S.N., Kennesaw State University, 2016, M.S.N., Case Western Reserve University, 2002, B.S.N., Otterbein College, 1995

Mainella, Felicia, C, Lecturer, Ph.D., University of Maryland at College Park, 2003, M.A., Bowling Green State University, 1992, B.S., University of Evansville, 1990

Majumder, Sarasij, Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2009, M.A., University of Delhi, 1999, M.A., Rutgers, The State University of New Jersey, 2006, B.A., University of Calcutta, 1996

Makus, Rebecca, M, Associate Professor, M.F.A., California Institute of the Arts, 2007, B.F.A., Smith College, 2000

Malewski, Erik, L, Professor, Ph.D., The Pennsylvania State University, 2003, M.Ed., The Pennsylvania State University, 1998, B.A., Loyola University Chicago, 1995

Malgeri, Linda, M, Associate Professor, M.B.A., Stetson University, 1977, B.A., The State University of New York at Stony Brook, 1975

Mallavarapu, Suma, Associate Professor, Ph.D., The Georgia Institute of Technology, 2009, M.S., The Georgia Institute of Technology, 2004, B.S., Southern Illinois University, 2001

Malluck, John, F, Senior Lecturer, Ph.D., The Georgia Institute of Technology, 1976, M.S., The Georgia Institute of Technology, 1973, B.A.E., The Georgia Institute of Technology, 1972

Maloni, Michael, J, Professor, Ph.D., The Ohio State University, 1997, M.A., The Ohio State University, 1995, B.S., The Pennsylvania State University, 1991

Mangine, Gerald, T, Assistant Professor, Ph.D., University of Central Florida, 2015, M.Ed., The College of New Jersey, 2006, B.S., The College of New Jersey, 2002

Mann, Betty Acheson Alison, Associate Professor, Ph.D., University of Oregon, 2008, M.Ed., Florida State University, 2004, B.Ed., Florida State University, 2001

Marcano, Nashieli, Librarian Associate Professor, Ph.D., University of Pittsburgh, 2013, M.L.I.S., Florida State University, 2004, M.A., Bowling Green State University, 2007

Marchisio, Gaia, G, Associate Professor, Ph.D., Università Degli Studi di Pavia Includes all Schools, 2006, B.A., Università Commerciale L Bocconi, 1998

Marek, Pam, J, Professor, Ph.D., University of Florida, 1998, M.S., University of Florida, 1995, B.S., University of Central Florida, 1993

Markle, Gail, S, Associate Professor, Ph.D., Georgia State University, 2011, M.S., University of North Texas, 2004, B.S.B.A., East Carolina University, 1981

Marks, Beth, W, Senior Lecturer, M.Ed., Kennesaw State University, 2000, B.B.A., The University of Texas at Austin, 1987

Marktanner, Marcus, Professor, Ph.D., Technische Universität Ilmenau, 1997, M.A., Universität Bayreuth University of Bayreuth, 1992, M.S., University of North Texas, 1999

Marshall, Matthew, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2013, M.S., University of Florida, 2003, B.S., University of Florida, 2001

Marsil, Dorothy, F, Professor, Ph.D., University of Kentucky, 2003, M.S., The University of Tennessee at Chattanooga, 1999, B.A., The University of Tennessee, 1995

Martin, Allison, L, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2016, M.S., Georgia Institute of Technology, The, 2008, B.S., Kennesaw State University, 2003

Martin, Elizabeth, G, Associate Professor, Bachelor of Architecture, Tulane University, 1987, M.ARCH, Southern California Institute of Architecture, 1992, M.ARCH, Tulane University, 1987

Martin, Nicole, G, Associate Professor, Ph.D., The University of New Mexico, 2005, M.A., Golden Gate University, 1999, M.S., The University of New Mexico, 2001, B.A., Mills College, 1996

Martin, Robert, A, Senior Lecturer, M.B.A., Kennesaw State University, 1991, B.S., Indiana University Bloomington, 1979

Martin, Tim, Associate Professor, Ph.D., The University of New Mexico, 2005, M.A., New Mexico State University, 1999, B.A., New Mexico State University, 1995

Mathews, Timothy, M, Professor, Ph.D., The State University of New York at Stony Brook, 2002, M.A., University of Virginia, 1998, B.A., Wilkes University, 1996

Mathisen, Richard, E, Professor, Ph.D., Michigan State University, 1977, M.B.A., Michigan State University, 1970, B.S., Michigan State University, 1969

Matson, Ronald, H, Professor, Ph.D., University of California, Los Angeles, 1987, M.S., California State University, Long Beach, 1980, B.S., California State University, Long Beach, 1976

Matthews, Kathy, L, Assistant Professor, M.A., University of California, Santa Cruz, 1978, B.A., San Jose State University, 1976

Matthews, Richard, A, Lecturer, M.S., Florida International University, 2010, B.S.B.A., University of Tennessee - Knoxville, The, 1990, AOS, Culinary Institute of America, 2002

Mattord, Carola, L, Lecturer, Ph.D., Georgia State University, 2009, M.A., Georgia State University, 2003, B.A., Kennesaw State University, 2000

Mattord, Herbert, J, Associate Professor, Ph.D., Nova Southeastern University, 2012, M.B.A., Texas State University, 1982, B.B.A., Texas State University, 1979

Matute Castro, Arturo, Assistant Professor, Ph.D., University of Pittsburgh, 2015, M.A., University of Pittsburgh, 2015, M.A., La Universidad de la Habana, 2000, B.A., La Universidad de la Habana, 1994

Mauge-Lewis, Carole, Professor, M.F.A., Howard University, 1989, B.F.A., Howard University, 1984

Mayeed, Mohammed, S, Associate Professor, Ph.D., University of Tokyo, The, 2002, M.S.E., Bangladesh University of Engineering and Technology, 1997, B.S.E., Bangladesh University of Engineering and Technology, 1995

Mayo, Charles, M, Professor, Ph.D., The University of Alabama, 1993, M.A., The University of Alabama, 1989, M.S., The University of Southern Mississippi, 1976, B.S., The University of Southern Mississippi, 1975

Mays, Valerie, W, Professor, Ph.D., Cornell University, 1985, B.A., Hampton University, 1980

Mazzotta, Stefano, Professor, Ph.D., McGill University, 2005, M.B.A., McGill University, 2000, B.S., Bologna University, 1992

McAlpine, Cheryl, G, Associate Professor, Ed.D., University of Virginia, 1995, M.A., Old Dominion University, 1984, B.A., Old Dominion University, 1978

McCafferty, James, T, Assistant Professor, Ph.D., University of Cincinnati, 2013, M.S., University of Cincinnati, 2007, B.A., Lycoming College, 2003

McCandless, Jamie, A, Lecturer, Ph.D., Western Michigan University, 2015, M.A., University of Utah, 2004, B.S., Southern Utah University, 1999

McClane, Leslie, M, Clinical Assistant Professor, M.A., Appalachian State University, 1981, M.A., Loyola College in Maryland, 1997, B.A., Centre College of Kentucky, 1978

McClatchey, Irene, S, Associate Professor, Ph.D., The University of Georgia, 2006, M.S.W., The University of Georgia, 1989

McClintock, Diana, L, Associate Professor, Ph.D., Emory University, 1998, M.A., Emory University, 1986, B.A., Duke University, 1983, B.A., Duke University, 1983

McComb, James, M, Senior Lecturer, M. Acc., Kennesaw State University, 1996, B.A., Kennesaw State University, 1989

McCormick, Caroline, B, Lecturer, M.S., Clemson University, 2014, B.S., Presbyterian College, 2016, B.S., Presbyterian College, 2012

McDaniel, Brent, A, Associate Professor, Ph.D., The Georgia Institute of Technology, 2005, M.S., Georgia State University, 1997, B.S., The Georgia Institute of Technology, 1995

McDaniel, Paul, N, Assistant Professor, Ph.D., University of North Carolina - Charlotte, 2013, M.A., University of Alabama at Birmingham, The, 2007, M.S., University of Tennessee Knoxville, The, 2006, B.S., Samford University, 2004

McElroy, Thomas, C, Associate Professor, Ph.D., Mississippi State University, 1999, M.S., Mississippi State University, 1995, B.S., Bloomsburg University of Pennsylvania, 1991

McFall, Kevin, S, Associate Professor, Ph.D., Georgia Institute of Technology- Lorraine Campus, The, 2006, M.S., Massachusetts Institute of Technology, 1997, B.S., Virginia Polytechnic Institute and State University, 1995

McGarey, Donald, J, Professor, Ph.D., University of South Florida, 1991, M.S., Louisiana State University and A&M College, 1987, B.S., Louisiana State University and A&M College, 1984

McGovern, Bryan, P, Professor, Ph.D., University of Missouri-Columbia, 2003, M.A., University of Cincinnati, 1997, B.A., Northern Kentucky University, 1990

McGrath, Laura, L, Professor, Ph.D., The University of Georgia, 2003, B.A., Smith College, 1998

McKelvey, Stephen, C, Senior Lecturer, M.A., The University of Georgia, 1983, A.B., The University of Georgia, 1981

McLaughlin, Noah, J, Assistant Professor, Ph.D., The Pennsylvania State University, 2007, M.A., University of Pittsburgh, 2002, B.A., James Madison University, 2000

McLester, Cherilyn, N, Associate Professor, Ph.D., The University of Tennessee at Knoxville, 2007, M.S., The University of Tennessee at Knoxville, 2004, B.S., San Diego State University, 1998

McLester, John, R, Professor, Ph.D., The University of Alabama, 2000, M.A., The University of Alabama, 1997, B.S., Jacksonville State University, 1994

McMahon, Jennifer, J, Associate Professor, Ph.D., The University of Georgia, 2009, M.A., The University of Georgia, 2005, A.B., The University of Georgia, 2000, B.S., The University of Georgia, 2000

McMahon, Tara, Lecturer, M.A., University of Louisville, 2017, B.A., Hanover College, 2014, B.A., Hanover College, 2014

McMorran, Andrew, G, Associate Professor, Ph.D., Old Dominion University, 1990, M.S., Old Dominion University, 1986, B.S., Heriot-Watt University, 1984

McMurry, Jonathan, L, Professor, Ph.D., University of Connecticut, 2002, M.S., The University of North Carolina at Chapel Hill, 1996, B.S., The University of North Carolina at Chapel Hill, 1991

McNamara, Corinne, L, Professor, Ph.D., The University of Mississippi, 2004, M.A., Baylor University, 2000, B.A., The University of Mississippi, 1997

McNeal, Joel, R, Assistant Professor, Ph.D., The Pennsylvania State University, 2005, B.A., Vanderbilt University, 1999

McNeill, Stephen, J, Senior Lecturer, Ph.D., European Graduate School EGS, 2009, M.A., University of Canterbury, 2004, B.S., Southern Illinois University, 2001

Meadati, Pavankumar, Professor, Ph.D., University of Nebraska - Lincoln, 2007, M.S., Indian Institute of Technology - Madras, 2000, B.E., Osmania University, 1998

Meadows, Feland, L, Professor, Ph.D., Instituto Inernacional de Estu, 1970, B.A., Wittenberg University, 1951

Meades, Glen, D, Lecturer, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2010, M.S., Louisiana State University and Agricultural and Mechanical College, 2005, B.S., Louisiana State University and Agricultural and Mechanical College, 1999

Mei, Chao, Assistant Professor, Ph.D., The University of Texas at San Antonio, 2016, M.S.S.E, University of Wisconsin-LaCrosse, 2011, B.S., South-Central University for Nationalities, 2009

Meimandi Parizi, Reza, Assistant Professor, Ph.D., Universiti Putra Malaysia, 2012, M.S., Universiti Putra Malaysia, 2008, B.S., Shahid Bahonar University of Kerman, 2005

Melnik, Mikhail, Professor, Ph.D., Georgia State University, 2003, M.A., Boston University, 1998, B.S., Georgia State University, 1995

Meng, Louis, L, Professor, Ph.D., University of British Columbia, 2003, M.A., The State University of New York at Oswego, 1996, B.A., People's University of China, 1982

Mesbahi, Mehrdad, Associate Professor, M.S.C.E., University of Alabama, The, 1983, B.S.C.E., Clemson University, 1979

Meurs, James, A, Associate Professor, Ph.D., Florida State University, The, 2008, M.B.A., Grand Valley State University, 1999, B.A., Grand Valley State University, 1998

Miles, Elizabeth, Assistant Professor, Ph.D., Yale University, 2017, M.A., Yale University, 2010, M.A., University of San Francisco, 2008, M.Phil., Yale University, 2013, B.A., University of California, Berkeley, 2002

Miles, Michelle, R, Assistant Professor, Ph.D., Emory University, 2011, M.Phil., Trinity College, 2002, B.A., Montana State University, 1999, B.A., Montana State University, 1999

Miller, Jonathon, A, Lecturer, M.S., University of Delaware, 2009, B.S., Salisbury University, 2006

Miller, Stephanie, K, Lecturer, M. Acc., The University of Georgia, 1999, B.B.A., The University of Georgia, 1998

Miller, Tom, W, Professor, D.B.A., Indiana University Bloomington, 1974, M.A., Ball State University, 1968, M.B.A., Indiana University Bloomington, 1973, B.S., Ball State University, 1965

Mills, Ann, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2017, B.S., Southern Polytechnic State University, 2003

Mims, La Shonda, Assistant Professor, Ph.D., University of Georgia, The, 2012, M.A., University of North Carolina - Charlotte, 2003, B.A., Georgia State University, 1992

Miner, Leslie, M, Clinical Assistant Professor, M.S.N., Medical University of South Carolina, 1993, B.S.N., The University of North Carolina at Charlotte, 1985

Mirzakhan, Karolin, Lecturer, Ph.D., DePaul University, 2016, M.A., DePaul University, 2012, B.A., St. Edward's University, 2008, B.A., St. Edward's University, 2008

Misoc, Florian, Associate Professor, Ph.D., Kansas State University, 2007, M.S., Pittsburg State University, 1999, B.S.E., University of Bucharest, 1989

Mitchell, David, B, Professor, Ph.D., University of Minnesota, 1982, M.A., Wake Forest University, 1978, B.A., Furman University, 1976

Mitchell, Mark, B, Professor, Ph.D., The University of Utah, 1984, B.S., Northwest Missouri State University, 1978

Mitchelson, Matthew, L, Associate Professor, Ph.D., The University of Georgia, 2010, M.A., East Carolina University, 2005, B.B.A., University of Kentucky, 2001

Mixson-Brookshire, Deborah, Associate Professor, M.B.A., Kennesaw State University, 2000, B.B.A., Kennesaw State University, 1996

Moazzez, Babak, Assistant Professor, Ph.D., Carleton University, 2014, M.S., Sharif University, 2008, B.S., Shiraz University, 2006

Molitoris-Miller, Susanna, Assistant Professor, Ph.D., University of Delaware, 2013, M.S., University of Delaware, 2009, B.S., The University of Scranton, 2007

Monaghan, Marietta, Lecturer, M.A., University of Alabama at Birmingham, The, 2004, M.S., Georgia Institute of Technology, The, 2009, B.F.A., University of Georgia, The, 1970, B.F.A., University of Georgia, The, 1970

Montalvo, Maria, Clinical Assistant Professor, Ed.D., Kennesaw State University, 2011, Ed.S., Kennesaw State University, 2008, M.A., Teachers College, Columbia University, 1983, B.A., Queens College, 1979

Montgomery, Robert, C, Associate Professor, Ph.D., University of California, Santa Barbara, 2009, M.A., University of California, Santa Barbara, 2001, B.S., Miami University, 1995

Moodie, Douglas, R, Professor, Ph.D., Syracuse University, 1996, M.B.A., Cornell University, 1987, M.S., Cornell University, 1989, B.S., Bristol University, 1973

Moore, Julie, A, Associate Professor, Ph.D., Indiana University Bloomington, 2003, M.Ed., University of North Texas, 1989, B.S.Ed., The University of Texas, 1985

Moran, Clarice, M, Assistant Professor, Ph.D., North Carolina State University, 2014, M.A., North Carolina State University, 1998, B.A., University of Georgia, The, 1986

Moran, John, P, Professor, Ph.D., The George Washington University, 1998, M.A., University of London, 1987, M.Phil., The George Washington University, 1995, B.S., Georgetown University, 1986

Moremen, Eileen, S, Lecturer, M.Mus., University of Michigan, 1978, B.M., University of Rochester, 1976

Morgan, Amanda, W, Assistant Professor, M.F.A., University of Central Florida, 2009, B.A., Florida State University, 2006, B.A., Florida State University, 2006

Morgan, Nina, Y, Associate Professor, Ph.D., University of California, Riverside, 1994, M.A., University of California, Riverside, 1989, B.A., University of California, Riverside, 1987

Morley, Patrick, R, Lecturer, M.S., Georgia Southern University, 2015, B.S., Georgia Southern University, 2012

Morris, Daniel, P, Research Associate Professor

Morris, Doris, J, Lecturer, M.S., California University of Pennsylvania, 2008, B.S., Kennesaw State University, 2000

Morrissey, Julia, J, Assistant Professor, Ph.D., The University of North Carolina at Chapel Hill, 1983, M.A., The University of North Carolina at Chapel Hill, 1979, B.A., The State University of New York at Binghamton, 1974

Mosholder, Richard, S, Associate Professor, J.D., Capital University, 1980, Ph.D., The Ohio State University, 2007, M.A., The Ohio State University, 2006, M.S., The Ohio State University, 1976, B.A., The Ohio State University, 1972

Msimanga, Huggins, Z, Professor, Ph.D., The Georgia Institute of Technology, 1988, M.S., Clark Atlanta University, 1983, B.Ed., University of Zululand, 1979, B.S., University of Zululand, 1975

Munson, April, S, Associate Professor, Ph.D., University of Illinois at Urbana-Champaign, 2009, M.A., University of Kentucky, 2005, B.A., University of Kentucky, 2001

Murray, Mary, G, Professor, Ph.D., Nova Southeastern University, 1999, M.B.A., Morehead State University, 1997, M.S., University of Kentucky, 1983, B.S., Skidmore College, 1978

Mutchler, Troy, R, Assistant Professor, Ph.D., Mississippi State University, 2004, M.S., University of Oregon, 1998

Mutlu, Canan, Assistant Professor, Ph.D., University of Texas at Dallas, The, 2015, B.A., Bogazici University, Turkey, 2007

Mutlu, Sunay, Assistant Professor, Ph.D., University of Texas at Dallas, The, 2015, B.A., Bogazici University, Turkey, 2007

Myers, Marrielle, Assistant Professor, Ph.D., North Carolina State University, 2014, M.Ed., North Carolina State University, 2007, B.S., Hampton University, 2003

Myers, Rachel, E, Associate Professor, Ph.D., University of South Florida, 2010, M.S.N., George Mason University, 1999, B.S.N., Florida State University, 1990

Myers, Tara Wynn, S, Associate Professor, Ph.D., University of Pittsburgh, 2006, M.A., University of Pittsburgh, 2006, B.A., University of Pittsburgh at Johnstown, 1999

Faculty N - R

Naidu, Bhupinder, Assistant Professor, Ph.D., Georgia State University, 2013, M.B.A., The University of Texas at San Antonio, 1988, B.S., Leicester Polytechnic, 1982

Nandan, Monica, Professor, Ph.D., Florida State University, 1996, M.B.A., Augusta State University, 1989, M.S.W., Florida State University, 1991, B.COM., University of Pune (Poona), 1984, MDBA, University of Pune (Poona), 1986

Napshin, Stuart, A, Associate Professor, Ph.D., Drexel University, 2009, M.B.A., Drexel University, 2003, M.S., Drexel University, 2003, B.S., University of South Florida, 1988

Nasseri, Simin, Professor, Ph.D., University of Sydney, 1998, M.S.M.E., Iran University of Science and Technology, 1992, B.S., Iran University of Science and Technology, 1987

Nava, Angela, O, Lecturer, Ph.D., Old Dominion University, 2014, M.S., University of Tennessee at Chattanooga, The, 2008, B.S., Kennesaw State University, 2005

Neal, Teresa, A, Lecturer, Ph.D., Walden University, 2012, Ed.S., Indiana University, 2003, M.S.Ed., Indiana University, 2001, B.A., Purdue University, 1999

Negash, Solomon, Professor, Ph.D., Claremont Graduate University, 2001, M.B.A., Pepperdine University, 1992, M.S., California State Polytechnic University, Pomona, 1987, M.S., Claremont Graduate University, 1998, B.Sc., Addis Ababa University, 1981

Negrelli, Kathryn, K, Assistant Professor, Ph.D., The University of Georgia, 1996, M.A., International Christian University, 1989

Nelson, Pauline, M, Clinical Assistant Professor, M.S., Virginia Commonwealth University, 1989, B.S., Virginia Commonwealth University, 1983

Neuby, Barbara, L, Professor, Ph.D., Southern Illinois University at Carbondale, 1993, M.A., Southern Illinois University at Carbondale, 1989, B.A., Eastern Illinois University, 1978

Newell, Julie, Professor, Ph.D., University of Wisconsin - Madison, 1993, M.A., University of Wisconsin - Madison, 1987, M.S., Kennesaw State University, 2016, B.A., Boise State University, 1983, B.S., Boise State University, 1983

Nguyen, Shelbee, Associate Professor, Ph.D., The University of Texas at San Antonio, 2012, M.A., Texas State University, 2009, B.A., Trinity University, 2007

Ni, Huan, Associate Professor, Ph.D., The State University of New York at Stony Brook, 2006, M.A., The State University of New York at Stony Brook, 2001, B.A., Wuhan University, 1999

Ni, Xuele, Professor, Ph.D., The Georgia Institute of Technology, 2006, M.S., The Georgia Institute of Technology, 2004, B.S., Nanjing University, 2000

Niederjohn, Daniel, M, Associate Professor, Ph.D., The University of Tennessee at Knoxville, 2002, M.A., The University of Tennessee at Knoxville, 1999, A.B., Dartmouth College, 1997

Niemann, Linda, G, Professor, Ph.D., University of California, Berkeley, 1975, M.A., University of California, Berkeley, 1972, B.A., University of California, Santa Cruz, 1968

Nisley, Thomas, J, Professor, Ph.D., University of Florida, 2002, M.A., Old Dominion University, 1993, B.S., Christopher Newport University, 1988

Noiset, Luc Professor, Ph.D., Tulane University, 1991, M.A., Tulane University, 1983, B.A., University of Connecticut, 1979

Noring, Jon, E, Lecturer, Ph.D., University of Minnesota, 1981, M.S., University of Minnesota, 1979, B.M.E., University of Minnesota, 1977

North, Max, M, Professor, Ph.D., Clark Atlanta University, 1995, M.S., Jackson State University, 1980, B.S., UNDEFINED, 1978

North, Sarah, M, Senior Lecturer, Ed.D., Clark Atlanta University, 1998, M.S., Clark Atlanta University, 1987, B.S., Girls College (Iran), 1981

Nowak, Kristine, F, Lecturer, Ph.D., Johns Hopkins University, 2004, B.S., Harvey Mudd College, 1997

Nowak, Scott, J, Associate Professor, Ph.D., Johns Hopkins University, 2003, B.S., Michigan State University, 1997

OKelley, David, M, Assistant Professor, M.F.A., University of California - Irvine, 2013, B.A., University of South Carolina, 2011

Oakley, Eric, O, Lecturer, Ph.D., University of North Carolina - Greensboro, 2017, M.A., University of North Carolina - Greensboro, 2009, B.A., University of North Carolina, 1999

Obeidat, Mohammed, A, Professor, Ph.D., Illinois Institute of Technology, 1993, M.S., Western Michigan University, 1988, B.S., Yarmouk University, 1984

Oberlton, Mia, F, Lecturer, Ed.D., Walden University, 2013, M.A., University of Phoenix, 2006, B.S., Kennesaw State University, 2004, B.S., Middle Tennessee State University, 1996

Odeleye, Ayokunle, Professor, M.F.A., Howard University, 1975, B.F.A., Howard University, 1973

Odom, Mary, L, Professor, Ph.D., University of Wisconsin-Madison, 2004, M.A., Virginia Commonwealth University, 1998, B.A., University of Richmond, 1994

Oguzmert, Metin, Associate Professor, Ph.D., Syracuse University, 2006, M.S., Istanbul Technical University, 2002, B.S., Istanbul Technical University, 1998

Okhio, Cyril, B, Assistant Professor, Ph.D., University of London, 1982, B.S., University of London, 1977

Okie, William, T, Associate Professor, Ph.D., The University of Georgia, 2012

Olovson, Brian, M, Assistant Professor, Ph.D., University of Iowa, 2018, M.A., Western Michigan University, 2013, B.S.Ed., Central Michigan University, 2010

Olsen, Adam, G, Librarian Assistant Professor, M.A., Indiana University, 2012, M.L.S., Indiana University, 2012, B.A., The University of Georgia, 2006

Olson, Mitch, W, Assistant Professor, M.F.A., Brooks Institute, 2012, B.A., Florida State University, 2010

Omachonu, John, O, Professor, Ph.D., Howard University, 1989, M.A., Howard University, 1984, B.S., Howard University, 1981

Omidvar, Iraj, Professor, Ph.D., Iowa State University of Science and Technology, 2004, M.A., Iowa State University of Science and Technology, 2001, B.A., Iowa State University of Science and Technology, 1996

Oncul, Fatih, Associate Professor, Ph.D., University of Colorado, 2001, M.S., University of Colorado, 1995, B.S., Middle East Technical University, 1992

Orlova Shokry, Ludmila, Lecturer, M.S., Moscow State University, 1992

Padukka, Prabha, Lecturer, Ph.D., Georgia State University, 2015, M.S., Georgia State University, 2014, B.S., University of Colombo, 2004

Pallas, Christopher, L, Associate Professor, Ph.D., The London School of Economics and Political Science, 2010, M.Sc., University of Edinburgh, 2003, B.A., Grinnell College, 1998

Palmer, Christopher, C, Associate Professor, Ph.D., University of Michigan at Ann Arbor, 2009, M.A., University of Michigan at Ann Arbor, 2002, B.A., Furman University, 1999

Palmer, Laura, A, Associate Professor, Ph.D., Texas Tech University, 2007, M.A., Texas Tech University, 2001, B.A., University of British Columbia, The, 1983

Paracka, Daniel, J, Professor, Ph.D., Georgia State University, 2002, M.S., West Chester University of Pennsylvania, 1991, B.A., St. Andrews Presbyterian College, 1984

Paris, Nita, A, Professor, Ph.D., The University of Georgia, 2000, M.A., Texas Woman's University, 1983, M.Ed., University of North Texas, 1994, B.S., Northwestern State University, 1980, B.S., Texas Woman's University, 1985

Park, Jungkyu, Assistant Professor, Ph.D., Case Western Reserve University, 2016, B.S., Hanyang University, 2004

Parker, David, B, Professor, Ph.D., The University of North Carolina at Chapel Hill, 1988, M.A., The University of North Carolina at Chapel Hill, 1982, A.B., Duke University, 1979

Parker, Nathaniel, F, Assistant Professor, D.M.A., Michigan State University, 2009, M.M., Bowling Green State University, 2003, B.M., Arizona State University, 2001

Parrott, Charles, T, Associate Professor, Ph.D., Southern Illinois University at Carbondale, 2011, M.A., Ball State University, 2002, B.A., Hastings College, 2000, B.A., Hastings College, 2000

Pascu, Nicolae, R, Professor, Ph.D., Babes-Bolyai University, 2001, M.S., University of Connecticut, 2000, M.S., Transilvania University of Brasov, 1996, B.S., Transilvania University of Brasov, 1995

Pate, Alice, K, Professor, Ph.D., The Ohio State University, 1995, M.A., Auburn University, 1986, B.A., Auburn University, 1982

Patrono, Michael, F, Senior Lecturer, M.S., Florida State University, 1989, B.S., Florida State University, 1980

Patterson, Mark, W, Professor, Ph.D., The University of Arizona, 1998, M.A., University of Guelph, 1994, B.S., University of Victoria, 1993 (*on leave*)

Patton, Randall, L, Professor, Ph.D., The University of Georgia, 1990, M.A., The University of Georgia, 1985, B.A., The University of Tennessee at Chattanooga, 1982

Paul, Jomon, A, Professor, Ph.D., The State University of New York at Buffalo, 2006, M.S., The State University of New York at Buffalo, 2004, B.E., Maharaja Sayajirao University of Baroda, India, 2002

Payne, Lois, C, Professor, Ph.D., The University of Texas at Austin, 1987, M.S.N., The University of Alabama at Birmingham, 1979, B.S.N., Medical College of Georgia, 1976

Payne, Stella, M, Lecturer, M.S., University of North Texas, 2016, B.S., Tennessee State University, 1984

Pearcey, Sharon, M, Professor, Ph.D., Georgia State University, 2000, M.A., Georgia State University, 1994, B.S., Georgia State University, 1985

Peltsverger, Svetlana, B, Professor, Ph.D., Southern-Ural National University and Institute of System Analysis of Russian Academy of Sciences, 2004, B.S., Chelyabinsk Polytechnic Institute, 1990

Pendergrass, Margaret, B, Senior Lecturer, M.F.A., The University of Iowa, 2000, B.A., University of Virginia, 1990

Perez, Jorge, Professor, Ph.D., Florida State University, 1997, M.B.A., Florida State University, 1988, B.A., Florida State University, 1986

Perissi, Keith, F, Senior Lecturer, B.S., Kennesaw State University, 2012

Peters, Ardith, A, Associate Professor, Ph.D., Emory University, 1985, M.A., Northern Illinois University, 1979, B.A., Wheaton College, 1976

Petersen, Rebecca, D, Associate Professor, Ph.D., Arizona State University, 1997, M.S., Arizona State University, 1992, B.S., Truman State University, 1990

Peterson, Shane, D, Assistant Professor, Ph.D., Washington University in St. Louis, 2012, M.A., Brigham Young University, 2006, B.A., Brigham Young University, 2004

Petrillo, Jane, A, Associate Professor, Ed.D., University of Cincinnati, 1995, M.S., Slippery Rock University, 1986, B.S.Ed., Slippery Rock University, 1983

Pettigrew, Justin, E, Assistant Professor, Ph.D., University of Georgia, The, 2013, M.A., University of Georgia, The, 2008, B.S., Georgia Southern University, 1992

Phillips, Jan, R, Senior Lecturer, M.A.P.W., Kennesaw State University, 1997, B.S., Kennesaw State University, 1990

Piecuch, James, R, Professor, Ph.D., The College of William and Mary, 2005, M.A., University of New Hampshire, 1997, B.A., University of New Hampshire, 1994

Pieper, Andrew, L, Associate Professor, Ph.D., University of Connecticut, 2007, M.A., University of Connecticut, 2000, B.S., Aquinas College, 1998

Pierce, Patricia, R, Senior Lecturer, M.S., Southern Polytechnic State University, 2000, B.A., Dunbarton College, 1963

Pierquet, Sandra, L, Lecturer, M.B.A., Loyola University Chicago, 1982, B.S., University of Wisconsin, 1977

Pincock, Heather, A, Associate Professor, Ph.D., Syracuse University, 2011, M.A., Syracuse University, 2005, BHUM, Carleton University, 2003

Pittman, Willie, R, Associate Professor, M.ARCH, Georgia Institute of Technology, The, 1978, B.S., Georgia Institute of Technology, The, 1977

Pitts, Joshua, D, Associate Professor, Ph.D., Mississippi State University, 2010, M.A., Mississippi State University, 2007, B.S., Mississippi State University, 2006

Plate, Stephen, W, Professor, D.M.A., University of Cincinnati, 1986, M.M., University of Cincinnati, 1980, B.M.E., Evangel University, 1979

Plattner, Andrew, S, Lecturer, Ph.D., The University of Southern Mississippi, 2010, M.A., The University of Southern Mississippi, 1991, B.A., Kansas Newman University, 1987

Popova, Velina, K, Assistant Professor, Ph.D., University of Oklahoma, 2008, M. Acc., University of Oklahoma, 2003, B.S., University of Economics, Varna, 1999

Popovych, Svitlana, Lecturer, M.S., Uzhgorod State University Ukraine, 1990, B.S., Uzhgorod State University Ukraine, 1990

Porter, Kandice, J, Associate Professor, Ph.D., Indiana University Bloomington, 2000, M.S., University of Florida, 1995, B.S., University of Florida, 1993

Pournaghshband, Hassan, Professor, Ph.D., University of Oklahoma, The, 1980, M.S., Northwestern University, 1976, B.S., University of Tehran, 1968

Powell, Tamara, M, Professor, Ph.D., Bowling Green State University, 1999, M.A., University of Arkansas, 1994, B.A., Hendrix College, 1992

Powis, Terry, Associate Professor, Ph.D., The University of Texas at Austin, 2002, M.A., Trent University, 1996, B.Sc., Trent University, 1987

Poyraz, Altug, S, Assistant Professor, Ph.D., University of Connecticut, 2014, M.S., Bilkent University, 2009, B.S., Bilkent University, 2007

Pradhan, Kallol, Lecturer, Ph.D., University of Wisconsin - Milwaukee, 2013, M.S., Indian Institute of Technology, 2004, B.S., Indian Institute of Technology, 2004, B.S., University of Calcutta, 2001

Preston, Jon, A, Professor, Ph.D., Georgia State University, 2007, M.S., Georgia Institute of Technology, The, 1998, B.S., Georgia Institute of Technology, The, 1997

Price, Harry, E, Professor, Ed.D., Syracuse University, 1981, M.M.Ed, Florida State University, 1975, B.M.E., Florida State University, 1974

Priestley, Jennifer Carroll, L, Professor, Ph.D., Georgia State University, 2004, M.B.A., The Pennsylvania State University, 1991, B.S., The Georgia Institute of Technology, 1989

Pulinkala, Ivan, Professor, Ed.D., The University of Alabama, 2012, M.F.A., Mills College, 2000, B.COM., Hindu College, 1994

Pullen, Nancy, H, Professor, Ph.D., University of Colorado, 2008, M.A., Indiana State University, 2002, B.A., Valparaiso University, 1999, B.S., Valparaiso University, 1999

Purcell, Jennifer, W, Associate Professor, Ed.D., The University of Georgia, 2013, M.P.A., Valdosta State University, 2010, B.A., Mercer University, 2006

Pynn, Thomas, Senior Lecturer, M.A., The University of Mississippi, 1992, M.A., The University of Mississippi, 1992, B.A., Georgia State University, 1987

Qian, Kai, Professor, Ph.D., University of Nebraska, 1990, M.E., East China Normal University, 1982, B.S., Harbin Engineering College, 1970

Qu, Hong, Assistant Professor, Ph.D., Carnegie Mellon University, 2010, M.S., University of London, 2003, M.S., University of Essex, 2002

Queen, Trina, M, Lecturer, M.A., Loyola University, 2009, B.A., Southern Polytechnic State University, 2003

Quinet, Gregory, R, Associate Professor, M.S., Southern Polytechnic State University, 1992, B.S., Embry-Riddle Aeronautical University, 1988

Quosigk, Benedikt, M, Assistant Professor, Ph.D., The University of Texas at San Antonio, 2013, M.B.A., Kennesaw State University, 2008, B.B.A., Kennesaw State University, 2007

Racel, Masako, N, Associate Professor, Ph.D., Georgia State University, 2011, M.A., Georgia State University, 1998, B.A., Kennesaw State University, 1996, B.A., Kennesaw State University, 1996

Raczek, Teresa, P, Associate Professor, Ph.D., University of Pennsylvania, 2007, M.A., The University of Chicago, 2001, B.A., Columbia University in the City of New York, 1991 (*on leave*)

Raines, Susan, S, Professor, Ph.D., Indiana University Bloomington, 2002, M.A., University of Idaho, 1995, B.A., California State University, Sacramento, 1992

Rajagopalan, Ramya, Assistant Professor, Ph.D., University of Hawaii at Manoa, 2009, M.S., University of Madras, 2001, B.S., University of Madras, 1998

Rajan, Kristin, B, Lecturer, Ph.D., Case Western Reserve University, 2000, M.A., Old Dominion University, 1990, B.A., Old Dominion University, 1983, B.A., Old Dominion University, 1983

Ramirez, Gabriel, Professor, Ph.D., Georgia State University, 1989, M.B.A., Georgia State University, 1983, B.S., Instituto Tecnológico y de Estudios Superiores de Monterrey, 1980

Ranasinghe, Kisa, S, Associate Professor, Ph.D., University of Missouri - Rolla, 2002, M.S., University of Missouri - Rolla, 2000, B.S., University of Colombo, 1996

Randall, Christopher, K, Professor, Ph.D., University of Kentucky, 1995, M.S., University of Kentucky, 1992, B.A., Wabash College, 1989

Randolph, Adriane, B, Associate Professor, Ph.D., Georgia State University, 2007, B.S., University of Virginia, 1999

Ray, Herman, E, Associate Professor, Ph.D., University of Louisville, 2011, M.S., Middle Tennessee State University, 2004, B.S., Middle Tennessee State University, 2001

Redish, Traci, C, Professor, Ph.D., Georgia State University, 1997, Ed.S., Georgia State University, 1994, M.B.E., Georgia State University, 1990, B.S., Georgia State University, 1988

Reed, Cynthia, J, Professor, Ed.D., University of Pittsburgh, 1997, M.S., State University of New York at Oswego, 1985, B.S., State University of New York at Oswego, 1978

Reese, Scott, A, Associate Professor, Ph.D., The University of Alabama, 2002, B.S., University of Wisconsin-Superior, 1998

Reeves, Teresa, B, Associate Professor, Ph.D., The University of Georgia, 2008, M.F.A., Virginia Commonwealth University, 1984, B.F.A., The University of Georgia, 1976

Reichert, Nancy, L, Associate Professor, Ph.D., Florida State University, The, 1995, M.A., Florida State University, The, 1991, B.A., University of Dayton, 1983 (*on leave*)

Reidy, Joseph, J, Lecturer, Ph.D., Saint Louis University, 2015, M.A., Saint Louis University, 2009, B.A., Kennesaw State University, 2004

Remillard, Joseph, H, Professor, J.D., Albany Law School, 1981, M.F.A., The University of Georgia, 1986, B.A., Siena College, 1978 (*on leave*)

Rendini, Virginia, A, Senior Lecturer, M.A., San Diego State University, 1994, B.A., University of Denver, 1980

Renfro, Crystal, L, Librarian Associate Professor, M.A., Georgia State University, 1992, M.L.S., Southern Connecticut State University, 2004, B.A., Spalding University, 1983

Rhea, James, W, Senior Lecturer, M.B.A., Troy State University, 2000, B.B.A., Kennesaw State University, 1987

Rhodes, Jason, R, Lecturer, Ph.D., The University of Georgia, 2013, M.A., Georgia State University, 2001, B.A., Rutgers, The State University of New Jersey, 1996

Rice, Herbert, W, Professor, Ph.D., The University of Georgia, 1993, M.A., Auburn University, 1978, B.A., Huntingdon College, 1974

Richards, Anne, R, Professor, Ph.D., Iowa State University of Science and Technology, 2003, M.A., Iowa State University of Science and Technology, 1986, B.A., Grinnell College, 1983

Richardson, Ronny, L, Professor, Ph.D., Georgia State University, 1991, M.B.A., Georgia State University, 1982, M.S., Georgia State University, 1984, B.S., University of Southern Mississippi, 1980

Richey, Amanda, B, Associate Professor, Ph.D., Tennessee Technological University, 2011, B.S., Tennessee Technological University, 2003

Riemann, Paul, R, Lecturer, M.B.A., Columbia University in the City of New York, 1989, B.A., Dickinson College, 1987

Ritchie, James, S, Associate Professor, Ph.D., The University of Georgia, 2010, M.Ed., Antioch University New England, 2000, A.B., The University of North Carolina at Chapel Hill, 1994

Ritter, Laura, R, Associate Professor, Ph.D., Northwestern University, 2003, M.S., University of Texas at Dallas, The, 1999, B.S., University of Texas at Dallas, The, 1998

Rizzuto, Anthony, P, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2010, M.ARCH, University of Illinois at Chicago, 1990, B.A., University of Florida, 1985

Roach, Amy, P, Clinical Assistant Professor, M.S.N., Kennesaw State University, 2013, B.S.N., Samford University, 2009

Roberts, Allen, D, Associate Professor, Ph.D., University of Maryland at College Park, 2010, M.S., University of Delaware - Newark, 2000, B.S., North Carolina Agricultural and Technical State University, 1997

Robertson, Patricia, R, Senior Lecturer, M.B.A., Kennesaw State University, 2008, B.S., Florida State University, 1982

Robinson, Karen, Professor, M.F.A., New York University, 1984, B.A., University of Colorado at Boulder, 1980, B.A., University of Colorado at Boulder, 1980

Robinson, Laura, L, Lecturer, M.B.A., The University of Georgia, 1980, B.A., American University, 1977

Robinson, Samuel, G, Senior Lecturer, B.S., Eastern Michigan University, 1993

Robinson-Dooley, Vanessa, M, Associate Professor, Ph.D., The University of Georgia, 2005, M.P.A., Drake University, 1991, M.S.W., The University of Georgia, 2000, B.A., Spelman College, 1989

Robson, Donald, L, Associate Professor, M.F.A., Edinboro University of Pennsylvania, 1991, B.F.A., Indiana University of Pennsylvania, 1986

Rodgers, Charner, L, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2011, Master of Engineering, Tennessee State University, 2006, B.S., University of Memphis, 2000

Rodriguez, Sanjuana, C, Assistant Professor, Ph.D., Georgia State University, 2014, M.S., The University of Tennessee at Knoxville, 2006, B.S., Mercer University, 2005

Rodriguez-Montero, Pamela, Assistant Professor

Rodriguez-Schaefer, Darlene, X, Assistant Professor, Ph.D., The University of Georgia, 2008, M.P.A., Rutgers, The State University of New Jersey, 2000, M.S.W., The University of Georgia, 2007, B.A., Florida International University, 1995

Roebuck, Deborah, M, Professor, Ph.D., Georgia State University, 1990, M.A., Northeast Missouri State College, 1975, B.S., Northeast Missouri State College, 1974

Rogers, Daniel, T, Professor, Ph.D., The University of Tennessee, 2003, M.A., The University of Tennessee, 2000, B.A., Johns Hopkins University, 1998

Rogers, Maryan, E, Lecturer, M.A., Wesleyan College, 1999, B.A., Wesleyan College, 1997

Roman, Suzanna, Clinical Assistant Professor, M.Ed., Georgia State University, 2011, B.Sc., University of Puerto Rico - Mayaguez, 2004

Roman, Tiffany, Assistant Professor, M.Ed., University of Notre Dame, 2004, B.F.A., University of Notre Dame, 2002

Ronnenberg, Ryan, P, Associate Professor, Ph.D., University of Wisconsin-Madison, 2007, M.A., University of Wisconsin-Madison, 2003, B.A., University of Wisconsin-Madison, 2000, B.A., University of Wisconsin-Madison, 2000, B.A., University of Wisconsin-Madison, 2000

Rorabaugh, Peter, W, Assistant Professor, Ph.D., Georgia State University, 2011, M.Ed., Georgia State University, 1999, B.A., University of Georgia, The, 1995

Rotnem, Thomas, Professor, Ph.D., Ohio State University, The, 1996, M.A., Ohio University, 1989, M.B.A., Georgia State University, 2003, B.A., Ohio University, 1986, B.A., Ohio University, 1986

Rouse, Mary, S, Professor, Ph.D., Florida State University, 1992, B.A., Florida State University, 1978

Roy, Abhra, Associate Professor, Ph.D., West Virginia University, 2004, M.A., University of Delhi, 1998, B.S., University of Calcutta, 1996

Ruhala, Laura, A, Associate Professor, Ph.D., Pennsylvania State University, The, 1999, B.S., GMI Engineering and Management Institute, 1991

Ruhala, Richard, J, Professor, Ph.D., Pennsylvania State University, The, 1999, B.S., Michigan State University, 1991

Rumsey, E Christine, Senior Lecturer, M.B.A., Loyola University Chicago, 1977, M.Ed., Loyola University Chicago, 1974, A.B., University of Illinois at Urbana-Champaign, 1972

Russov, Olga, Librarian Associate Professor, M.L.S., Leningrad State University, 1978

Rustamova, Zaya, Assistant Professor, Ph.D., Georgetown University, 2016, M.A., University of Missouri-Kansas City, 2003, B.A., Moscow Open State University, 1996

Rutherford, James, Senior Lecturer, M.S., Indiana State University, 1973, B.A., Indiana State University, 1966

Rutherford, Rebecca, Professor, Ed.D., Indiana State University, 1975, M.S., Southern Polytechnic State University, 1995, M.S., Indiana State University, 1972, B.S., Indiana State University, 1971

Rutherford, Brian, N, Associate Professor, Ph.D., Georgia State University, 2007, M.B.A., State University of West Georgia, 2002, B.B.A., State University of West Georgia, 2001

Faculty S - Z

Sachs, Daniel, E, Associate Professor, Ph.D., Case Western Reserve University, 1996, M.A., The City University of New York, Hunter College, 1990, B.A., The State University of New York at Stony Brook, 1978

Sadre-Orafai, Jenny, R, Professor, M.A., The University of Tennessee at Chattanooga, 2002, M.F.A., Georgia State University, 2010, B.A., The University of Tennessee at Chattanooga, 2000

Salman, Muhammad, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2012, M.S., Georgia Institute of Technology, The, 2008, B.S., University of Engineering and Technology - Lahore, 1997

Sanchez, Wendy, B, Professor, Ph.D., The University of Georgia, 2001, M.Ed., The University of Georgia, 1997, B.S.Ed., The University of Georgia, 1992

Sandefur, Amy, F, Senior Lecturer, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2003, M.A., West Georgia College, 1995, B.A., LaGrange College, 1993

Sanford, Christopher, Professor, Ph.D., University of London, 1988, B.S., University of London, 1982

Santini, Federica, Professor, Ph.D., University of California, Los Angeles, 2004, B.A., University of Siena, Italy, 1996

Scafidi, Benjamin, P, Professor, Ph.D., University of Virginia, 1998, M.A., University of Virginia, 1992, B.A., University of Notre Dame, 1990

Scapolo, Andrea, Assistant Professor, Ph.D., Indiana University, 2010, M.A., Indiana University, 2007, B.S., Universita degli Studi di Padova, 2003

Schaab, Katharine, Assistant Professor, Ph.D., Bowling Green State University, 2015, M.A., Northern Illinois University, 2011, M.A., Sarah Lawrence College, 2008, B.A., Miami University of Ohio, 2004, B.A., Miami University of Ohio, 2004

Schafer, Brad, A, Associate Professor, Ph.D., The University of Utah, 2003, M. Acc., The University of Georgia, 1995, B.B.A., North Georgia College and State University, 1993

Schafer, Jennifer, B, Associate Professor, Ph.D., University of South Carolina, 2003, M. Acc., University of Florida, 1994, B.S., University of Florida, 1992

Scheck, Lori, E, Senior Lecturer, M.S., The University of Arizona, 1983, B.S., Ithaca College, 1982

Scherer, Heidi, L, Associate Professor, Ph.D., University of Cincinnati, 2011, M.S., University of Cincinnati, 2007, B.S., Indiana University, 2006

Scherrer, Christina, R, Professor, Ph.D., Georgia Institute of Technology, The, 2005, M.S., Georgia Institute of Technology, The, 2001, B.I.E., Georgia Institute of Technology, The, 1999

Schlesinger, Nora, C, Assistant Professor, Ph.D., Arizona State University, 2016, M.Ed., Arizona State University, 1998, B.S., Colorado State University, 1981

Schmidt, David, M, Senior Lecturer, M.A.P.W., Kennesaw State University, 2005, B.A., Kennesaw State University, 2001

Schulzke, Kurt, S, Associate Professor, J.D., Georgia State University, 1998, B.S., Brigham Young University, 1986, MAC, Brigham Young University, 1986

Schwaig, Kathy, S, Professor, Ph.D., University of South Carolina at Columbia, 1996, M.B.A., Baylor University, 1986, M.L.A, Johns Hopkins University, 2017, B.B.A., Baylor University, 1984

Schwartz, Jesse, A, Professor, Ph.D., University of Maryland at College Park, 1999, M.A., The University of North Carolina at Greensboro, 1994, B.A., The University of North Carolina at Charlotte, 1992

Schweikhard, April, J, Librarian Associate Professor, M.L.I.S., University of Oklahoma, 2011, B.A., Abilene Christian University, 2008

Scott, Gail, Senior Lecturer, Ed.D., University of Florida, 1976, M.Ed., University of Florida, 1968, B.A., University of Florida, 1967

Scott, Heather, I, Assistant Professor, Ph.D., Mercer University, 2010, M.Ed., The University of Georgia, 2001, B.A., Agnes Scott College, 1999

Seelarbokus, Chenaz, B, Associate Professor, Ph.D., Georgia State University, 2005, M.A., Georgia State University, 2002, M.P.A., Georgia State University, 2002, M.S., Louisiana State University and Agricultural and Mechanical College, 1998, B.S., University of Mauritius, 1990, B.S., University of Mauritius, 1990

Selden, Gary, L, Professor, Ed.D., The University of Georgia, 1998, M.B.A., Kennesaw State University, 1988, B.A., Ithaca College, 1969

Sen, Debarati, Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2009, M.A., University of Delhi, 2000, M.A., Rutgers, The State University of New Jersey, 2006, M.Phil., University of Delhi, 2002, B.A., University of Calcutta, 1998

Seo, Youngguk, Assistant Professor, Ph.D., North Carolina State University, 2003, M.S., Seoul National University, 1996

Serkedakis, Michael, G, Senior Lecturer, M.B.A., Georgia State University, 1974, B.B.A., Georgia State University, 1971

Setiawan, Arief, B, Assistant Professor, Ph.D., Georgia Institute of Technology, The, 2010, Bachelor of Architecture, Gadjah Mada University, 1997, M.C.P., University of Cincinnati, 2001

Severson, Marvin, J, Senior Lecturer, Ph.D., Tulane University, 2013, M.A., Tulane University, 2008, B.A., The University of Tennessee, 2003, B.S., The University of Tennessee, 2003

Shabo, Rebecca, L, Associate Professor, Ph.D., Georgia State University, 1998, M.S.N., The University of Alabama at Birmingham, 1989, B.S.N., University of North Alabama, 1985

Shade, Sherri, L, Associate Professor, M.S.I.S., Kennesaw State University, 2000, B.S., Kennesaw State University, 1990

Shahriar, Hossain, M, Associate Professor, Ph.D., Queen's University at Kingston, 2012, M.S., Queen's University at Kingston, 2008

Sharma, Divesh, S, Professor, Ph.D., Griffith University, 1999, M.A., University of Canterbury, 1992, B.A., University of Canterbury, 1988

Sharma, Vineeta, D, Associate Professor, Ph.D., Griffith University, 2006, B.A., Griffith University, 1997

Sharpe, Christopher, R, Librarian Associate Professor, M.I.L.S, Valdosta State University, 2008, M.P.A., Kennesaw State University, 2013, B.A., Kennesaw State University, 1999

Shaver, Russell, T, Senior Lecturer, M.S., The University of Texas at San Antonio, 1978, M.S., St. Mary's University, 1975, B.S., North Georgia College and State University, 1970

Shaw, Alan, Assistant Professor, Ph.D., Massachusetts Institute of Technology, 1995, M.S., Massachusetts Institute of Technology, 1988, A.B., Harvard College, 1985

Shaw, Janet, L, Associate Professor, Ph.D., The University of Akron, 2005, B.S., Baldwin Wallace College, 2000

Shelden, Ashley, T, Associate Professor, Ph.D., Tufts University, 2009, M.A., Tufts University, 2007, B.A., Ithaca College, 2002

Sherer, Robert, Professor, M.F.A., Edinboro University of Pennsylvania, 1992, B.F.A., Georgia State University, 1986

Sherr, Laurence, E, Professor, D.M.A., University of Illinois at Urbana-Champaign, 1988, M.M., University of Illinois at Urbana-Champaign, 1981, B.A., Duke University, 1978

Shi, Xiaohui, Lecturer, Ph.D., University of North Texas, 2013, M.S., Sun Yat-sen University, 2006, B.S., Xiamen University, 2004

Shi, Yong, Associate Professor, Ph.D., The State University of New York at Buffalo, 2006, M.E., University of Science and Technology of China, 1999, B.E., University of Science and Technology of China, 1996

Shinall, Cheryl, A, Lecturer, M.A., Kennesaw State University, 1998, B.A., Emory University, 1980

Shirke, Snehal, Lecturer, M.S., Missouri University of Science and Technology, 2016

Shock, David, R, Professor, Ph.D., Miami University, 2002, M.A., Miami University, 1997, B.A., Kent State University, 1996

Shpuza, Ermal, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2006, M.S., University College London, 1995, B.S., Polytechnic University of Tirana, 1997

Shumate, Laura, S, Lecturer, M. Acc., Auburn University, 2001, B.S., Auburn University, 2000

Sichler, Karen, A, Lecturer, M.A., The Pennsylvania State University, 2005, A.B., The University of Georgia, 1998

Siddiqi, Khalid, M, Professor, Ph.D., Georgia Institute of Technology, The, 1997, Master of Engineering, Asian Institute of Technology, 1980, B.E., University of Engineering and Technology, 1978

Siha, Samia, Professor, Ph.D., Iowa State University of Science and Technology, 1989, M.S., Ain Shams University, 1976, B.S., Alexandria University, 1968

Silva, Ernesto, P, Associate Professor, Ph.D., University of California, Irvine, 2004, M.A., University of California, Irvine, 1996, B.A., University of California, Irvine, 1993

Simon, Robert, Professor, Ph.D., The University of Texas at Austin, 2006, M.A., Boston University, 2000, B.A., Boston University, 2000

Simpson-Wilkey, LaJuan, E, Professor, Ph.D., Louisiana State University and A & M College, 1999, M.A., Louisiana State University and A & M College, 1996, B.A., Fisk University, 1994

Singh, Rajnish, Associate Professor, Ph.D., Case Western Reserve University, 1999, M.S., Nagpur University, 1991, B.S., Nagpur University, 1989

Sinha, Mona, Associate Professor, Ph.D., Texas A&M University, 2008, Master of Management Studies, University of Bombay, 1993, B.B.A., S.N.D.T. University, 1991

Sipp, George, C, Professor, M.F.A., Clemson University, 2000, B.F.A., University of Florida, 1982

Sitton, Lara, S, Assistant Professor, Ph.D., Georgia State University, 2015, B.A., Georgia State University, 2006

Skaggs, Carmen, T, Professor, Ph.D., University of Georgia, The, 2006, M.A., University of Georgia, The, 2002, M.T.S., Duke University, 2000, B.A., Mercer University, 1998

Skelton, Samuel, B, Senior Lecturer, B.M., Georgia State University, 1990

Skott Myhre, Hans, A, Professor, Ph.D., University of Minnesota, 2002, Ph.D., University of Minnesota, 2008, M.Ed., University of Washington, 1980, B.A., University of Washington, 1976

Sledd, Erin, J, Lecturer, M.A., Georgia State University, 1995, B.A., Furman University, 1988

Slinger-Friedman, Vanessa, Professor, Ph.D., University of Florida, 2002, M.A., University of Florida, 1996, B.A., University of Florida, 1994

Smalt, Steven, W, Associate Professor, Ph.D., The Union Institute, 2000, M. Acc., University of Florida, 1981, B.B.A., Columbus College, 1979

Smith, Andrew, P, Clinical Assistant Professor, M.Ed., The University of Georgia, 1998, B.S.Ed., The University of Georgia, 1995

Smith, Deborah, N, Professor, Ph.D., Georgia State University, 1995, M.Ed., The University of Georgia, 1989, B.A., Furman University, 1986

Smith, Garrett, Associate Professor, Ph.D., University of California, Davis, 1995, M.I.M., American Graduate School of International Management, 1983, B.A., University of the Pacific, 1982

Smith, Herb, J, Professor, Ph.D., Kent State University, 1980, M.A., Northeastern University, 1970, B.A., Northeastern University, 1968

Smith, Keith, W, Associate Professor, M.F.A., University of Florida, 1999, B.S., Morgan State University, 1994

Smith, Sabine, Professor, Ph.D., University of California, Davis, 1996, M.A., Johannes Gutenberg - Universitat Mainz, 1989

Smith, Susan, K, Associate Professor, Ph.D., Indiana University Bloomington, 1998, M.A., Indiana University Bloomington, 1993, B.A., Florida State University, 1986

Smith, Susan, M, Professor, Ph.D., Rensselaer Polytechnic Institute, 1994, M.S., Rensselaer Polytechnic Institute, 1990, B.S., Stanford University, 1984

Smith, Wendy, S, Lecturer, M.A., University of South Florida, 1995, B.A., Florida Southern College, 1992

Smith McKoy, Sheila, Professor, Ph.D., Duke University, 1994, M.A., University of North Carolina - Chapel Hill, 1991, B.A., North Carolina State University, 1989

Sneha, Sweta, Professor, Ph.D., Georgia State University, 2008, B.S., University of Maryland at College Park, 2000

Snook, Carl, D, Lecturer, Ph.D., Michigan State University, 2013, M.A., Michigan State University, 2007, M.A., Kent State University, 2003, B.A., Kent State University, 2000

Soldatenko, Gabriel, M, Associate Professor, Ph.D., The State University of New York at Binghamton, 2011, M.A., The State University of New York at Binghamton, 2004, B.A., Arizona State University, 1999, B.A., Arizona State University, 1999

Soleimani, Arash, Assistant Professor, Ph.D., Clemson University, 2015, Bachelor of Architecture, Art University of Isfahan, 2008, M.ARCH, University of Nottingham, 2010

Solohub, Jennifer, S, Clinical Assistant Professor, M.S.N., Mercer University, 2015, B.S.Ed., Western Illinois University, 1979, B.S.N., Mercer University, 2005

Son, Junggab, Assistant Professor, Ph.D., Hanyang University, 2014, M.S., Hanyang University, 2011, B.S., Hanyang University, 2009

Sooklal, Valmiki, K, Associate Professor, Ph.D., Tulane University, 2007, M.S., Tulane University, 2002, B.S., University of the West Indies, 1994

Sowell, Richard, L, Professor, Ph.D., Medical College of Georgia, 1990, M.S.N., Medical College of Georgia, 1983, B.S.N., Georgia State University, 1980

Speakman, Burton, C, Assistant Professor, Ph.D., Ohio University, 2017, M.A., University of Nebraska - Lincoln, 2011, B.S., Bowling Green State University, 2002

Spinks, M'Lyn, K, Clinical Assistant Professor, M.S.N., University of West Georgia, 2015, B.S.N., Georgia State University, 1988

Spoletini, Paola, Professor, Ph.D., Politecnico di Milano, 2005, M.S., University of Illinois at Chicago, 2001, M.S., Politecnico di Milano, 2001, B.S., Politecnico di Milano, 2001

St Pierre, Peter, E, Associate Professor, Ph.D., The University of Georgia, 2001, M.S., University of New Hampshire, 1997, B.S., University of New Hampshire, 1995, B.S., University of New Hampshire, 1995

Stachura, Eric, C, Assistant Professor, Ph.D., Temple University, 2016, M.A., Temple University, 2013, B.S., University of Illinois, 2011

Stallings, Lucy, L, Professor, Ph.D., The University of Georgia, 1995, M.Ed., Auburn University at Montgomery, 1990, B.S., Auburn University, 1984

Starks, Brian, M, Associate Professor, Ph.D., Indiana University, 2005, M.A., Indiana University, 2000

Steiner, Hillary, H, Associate Professor, Ph.D., The University of Georgia, 2003, M.A., The University of Georgia, 2000

Stepakoff, Jeffrey, Associate Professor, M.F.A., Carnegie Mellon University, 1988, B.A., The University of North Carolina at Chapel Hill, 1985
Stephens, Cristina, S, Associate Professor, Ph.D., Georgia State University, 2005, M.A., University of Oxford, 1998, B.S., Academy of Economic Studies, Romania, 1996

Stephens, Jacqueline, F, Assistant Professor, Bachelor of Architecture, Southern Polytechnic State University, 2009, M.S., Southern Polytechnic State University, 2011

Stephenson, Charlotte, Lecturer, M.A., University of Alabama, The, 1966, B.A., Judson College, 1964

Stephenson, Jessica, J, Associate Professor, Ph.D., Emory University, 2006, M.A., Emory University, 2000, B.A., University of the Witwatersrand, 1993

Stephenson, Sandria, S, Assistant Professor, Ph.D., University of Georgia, The, 2008, M.B.A., Florida Agricultural and Mechanical University, 1998

Steppe, Johnathan, D, Clinical Assistant Professor, M.S.N., Kennesaw State University, 2013, B.A., University of Kentucky, 1995, B.S.N., Kennesaw State University, 2010

Sterling, Evelina, W, Assistant Professor, Ph.D., Georgia State University, 2013, M.H.S., Johns Hopkins University, 1995, B.S., Mary Washington College, 1992

Stewart, Linda, S, Associate Professor, M.A., University of New Hampshire, 1997, M.A.T., University of New Hampshire, 1991, B.A., University of New Hampshire, 1990

Stewart, Tracie, L, Professor, Ph.D., Purdue University, 1995, M.S., Purdue University, 1993

Stiles, Cheryl, Librarian Professor, MLN, Emory University, 1983, B.A., Duke University, 1980

Stockdale, Susan, L, Professor, Ph.D., The University of Tennessee, 2003, M.Ed., University of North Dakota, 1995, B.S.Ed., University of North Dakota, 1987, B.S.Ed., University of North Dakota, 1987

Stokes, Kevin, L, Professor, Ph.D., Rensselaer Polytechnic Institute, 1995, M.S., University of New Orleans, 1989, B.S., Mississippi State University, 1985

Stollberg, David, W, Assistant Professor, Ph.D., The Georgia Institute of Technology, 2000, M.S., Vanderbilt University, 1990, B.E., Vanderbilt University, 1988

Stollenz, Michael, Assistant Professor, Ph.D., Friedrich-Schiller University Jena, 2003, M.Sc., Friedrich-Schiller University Jena, 1998

Story, Paul, A, Associate Professor, Ph.D., Virginia Commonwealth University, 2008, M.S., Virginia Commonwealth University, 2004

Stotz, Daniel, Lecturer, M.S., Colorado State University, 1980, B.B.A., Eastern Michigan University, 1976

Strieker, Toni, S, Professor, Ph.D., Southern Illinois University at Carbondale, 1981, M.A., The University of Alabama at Birmingham, 1979, B.A., University of West Florida, 1973

Stringer, Richard, J, Assistant Professor, Ph.D., Old Dominion University, 2018, M.A., Old Dominion University, 2013, B.A., Old Dominion University, 2011

Stuart, Randy, S, Associate Professor, M.B.A., The University of Hawaii at Manoa, 1989, B.S., Northern Illinois University, 1974

Sumner, Melanie, D, Associate Professor, M.A., Boston University, 1987, B.A., The University of North Carolina at Chapel Hill, 1986

Suther, Bradley, E, Assistant Professor, Ph.D., The University of Georgia, 2013, M.S., The University of Georgia, 2006, B.S., North Carolina State University, 2000

Sutton, Heather, Assistant Professor, Ph.D., Clemson University, 1996, B.Sc., University of Toronto, 1990

Sutton, Linda, J, Clinical Assistant Professor, M.S., University of Rochester, 1989, B.S.N., The University of Texas Health Science Center at Houston, 1985

Sutton-Brown-Fox, Camille, A, Assistant Professor, Ph.D., Georgia State University, 2011, M.Ed., Georgia State University, 2006, B.S., University of Guelph, 2003

Swaim, James, A, Clinical Assistant Professor, D.B.A., Kennesaw State University, 2013, M.B.A., California State University, Long Beach, 1981, B.S.B.A., California State University, Long Beach, 1979

Swain, Brian, S, Assistant Professor, D.Phil., Ohio State University, The, 2014, M.A., Ohio State University, The, 2009, B.A., Sewanee: The University of the South, 2006

Sweigart, John, Associate Professor, M.S., University of Missouri - Rolla, 1983, B.S., University of Missouri - Columbia, 1976

Swint, Kerwin, C, Professor, Ph.D., Georgia State University, 1995, M.Ed., The University of Georgia, 1990, A.B., The University of Georgia, 1984

Taasoobshirazi, Gita, Assistant Professor, Ph.D., The University of Georgia, 2007, M.A., The University of Georgia, 2005, M.S., Kennesaw State University, 2014, B.A., Emory University, 2002

Taglialatela, Jared, P, Associate Professor, Ph.D., Georgia State University, 2004, B.A., University of Virginia, 1997

Taglialatela, Lauren, A, Professor, Ph.D., Georgia State University, 2005, M.A., Georgia State University, 2000, B.A., Furman University, 1995

Tapu, Daniela, Professor, Ph.D., The University of Alabama, 2005, M.S., Technische Universitat Braunschweig, 2000, B.S., Alexandru Ioan Cuza University, 1998

Tashchian, Armen, Professor, Ph.D., The University of Texas at Austin, 1980, M.B.A., The University of Texas at Austin, 1978, B.B.A., The University of Texas at Austin, 1975

Tatum, Dawn, Lecturer, M.S., Southern Polytechnic State University, 2012, B.S., University of Central Florida, 1986

Taylor, James, B, Assistant Professor, Ph.D., Georgia State University, 2013, M.A., Georgia State University, 2009, A.B., Georgia State University, 2007

Taylor, Katherine, J, Lecturer, M.Ed., Saint Mary's University, 1993, B.A., Saint Mary's University, 1991

Tekes, Ayse, Assistant Professor, Ph.D., Istanbul Technical University, 2012, M.S., Istanbul Technical University, 2007, B.S., Istanbul Technical University, 2003

Thackston, Michael, G, Professor, Ph.D., Georgia Institute of Technology, The, 1981, M.S., Georgia Institute of Technology, The, 1976, B.S., Georgia Institute of Technology, The, 1974

Thain, Walter, E, Associate Professor, Ph.D., Georgia Institute of Technology, The, 1994, M.S., Georgia Institute of Technology, The, 1982, B.E.E., Georgia Institute of Technology, The, 1981

Thomas, Dominic, Associate Professor, Ph.D., University of Georgia, The, 2005, B.A., Brandeis University, 1994

Thomas, Griselda, D, Associate Professor, Ph.D., Temple University, 2008, M.A., Temple University, 2002, M.A., Northeastern University, 1996, B.A., Kennesaw State University, 1994

Thomas, Joe, A, Professor, Ph.D., The University of Texas at Austin, 1992, M.A., Southern Methodist University, 1988, B.F.A., University of North Texas, 1982

Thomas, Lawrence, B, Senior Lecturer, M.S., Auburn University, 1972, B.S., Auburn University, 1967

Thorne, Charles, J, Lecturer, M.A., Long Island University, 2008, B.A., Kennesaw State University, 2006

Thornton, Natasha, A, Assistant Professor, Ph.D., Georgia State University, 2014, M.Ed., Albany State University, 2004, B.S., East Tennessee State University, 2002

Thorpe, Kimberly, M, Lecturer, Ed.S., Cambridge College, 2009, M.S., Johns Hopkins University, 2002, B.A., Spelman College, 1998

Thrash, Mary, K, Clinical Assistant Professor, D.N.P., Georgia Regents University, 2014, M.S.N., Vanderbilt University, 1999, B.S., Furman University, 1995

Tian, Xin, Assistant Professor

Tift, Kristyl, D, Assistant Professor, Ph.D., University of Georgia, The, 2017, M.F.A., The New School for Social Research, 2007, B.A, Georgia Southern University, 2004

Tillman, Mark, D, Professor, Ph.D., University of Florida, 1999, M.S., University of Florida, 1995, B.S., University of Florida, 1994

Tippens, Scott, Professor, M.S., Georgia Institute of Technology, The, 1989, B.E.E., Georgia Institute of Technology, The, 1988

Tis, Laurie, L, Professor, Ph.D., University of Virginia, 1992, M.Ed., University of Virginia, 1989, B.S., University of Vermont and State Agricultural College, 1987

Tomita, Kei, Assistant Professor, Ph.D., Indiana University, 2017, M.A.Ed., International Christian University, 2012, B.A., International Christian University, 2010

Tompkins, James, Professor, Ph.D., The Ohio State University, 1994, M.B.A., University of Pennsylvania, 1986, B.S., United States Merchant Marine Academy, 1979

Torkornoo, Hope, K, Professor, Ph.D., Georgia State University, 1992, M.B.A., Mississippi State University, 1982, B.S., University of Ghana, 1979

Toson, Sonia, J, Associate Professor, J.D., American University, 2000, M.B.A., American University, 2000, B.A., University of Illinois at Urbana-Champaign, 1997

Totten, Christopher, D, Associate Professor, J.D., Georgetown University, 2000, L.L.M., Georgetown University, 2002, A.B., Princeton University, 1997

Traficante, Debra, L, Associate Professor, D.M.A., The University of Oklahoma, 2010, M.M., University of Florida, 2007, B.M., University of Florida, 2001

Traille, Ethel, K, Associate Professor, Ph.D., University of London, 2006, M.A., University of London, Birkbeck, 1988, B.A., University of London, 1980

Treiber, Linda, A, Professor, Ph.D., North Carolina State University, 2005, M.S., The Ohio State University, 1997, B.A., Miami University, 1979, B.S.N., Ashland University, 1989

Tresham, Harriet, Senior Lecturer, M.S., State University College at Brockport, 1981, B.S., Roberts Wesleyan College, 1976

Trivedi, Nirmal, H, Assistant Professor, Ph.D., Boston College, 2009, B.A., University of California, Irvine, 2000

Troia, Matthew, J, Assistant Professor, Ph.D., Kansas State University, 2014

True, Sheb, L, Professor, Ph.D., The University of Mississippi, 1992, M.B.A., University of Houston - Clear Lake, 1987, B.B.A., Stephen F. Austin State University, 1985

Tsay, Bor-Yi, Professor, Ph.D., University of Houston, 1986, M.B.A., Eastern Washington University, 1982, B.S., National Taiwan University, 1977

Tseng, Tsai-Tien, Associate Professor, Ph.D., University of Illinois at Urbana-Champaign, 2005, M.S., University of California, San Diego, 1999, B.S., University of California, San Diego, 1998

Tu, Jun, Associate Professor, Ph.D., The City University of New York, 2008, M.E., Nanjing University, 1998, M.Phil., The City University of New York, 2006, B.S., Nanjing University, 1995

Tudor, Robert, K, Professor, Ph.D., The University of Mississippi, 1992, M.B.A., Augusta College, 1985, B.A., The University of Georgia, 1980

Turner, Ariel, K, Librarian Associate Professor, M.I.L.S, Valdosta State University, 2012

Turner, Nancy, J, Senior Lecturer, M.S.C.E., Purdue University, 1980, B.S.E., Purdue University, 1979

Tutterow, Roger, C, Professor, Ph.D., Georgia State University, 1990, M.A., Georgia State University, 1988, B.S., Berry College, 1983

Uddin, Mohammed, S, Professor, Ph.D., University of Sheffield, 1999, Bachelor of Architecture, Bangladesh University of Engineering and Technology, 1981, M.ARCH, Kent State University, 1988

Ukeje, Ikechukwu, C, Professor, Ed.D., Rutgers, The State University of New Jersey, 1990, M.B.A., Rutgers, The State University of New Jersey, 1992, M.S., University of Ibadan, 1985, M.S., University of Nigeria, 1985, B.A., The George Washington University, 1981

Ukuku, Afekwo, M, Assistant Professor, Ph.D., University of Georgia, The, 2015, M.P.H., Emory University, 2008, B.S., Georgia Southern University, 2004

Usher, Carlton, A, Associate Professor, Ph.D., Clark Atlanta University, 2002, M.A., Clark Atlanta University, 1994, B.S., Virginia State University, 1991

Utschig, Tristan, T, Associate Professor, Ph.D., University of Wisconsin - Madison, 2001, M.S., University of Wisconsin - Madison, 1994, B.S., University of Wisconsin - Madison, 1994

Vaezi, Seyed, M, Associate Professor, Ph.D., University of Houston, 2013, M.S., University of Nevada, Las Vegas, 2007

Van Horne, Wayne, W, Associate Professor, Ph.D., The University of Georgia, 1993, M.A., The University of Georgia, 1987, B.A., University of Central Florida, 1981

VanBrackle, Anita, S, Professor, Ed.D., Virginia Polytechnic Institute and State University at Blacksburg, 1991, M.A., Virginia Polytechnic Institute and State University at Blacksburg, 1977, B.S., Radford University, 1969

VanBrackle, Lewis, N, Professor, Ph.D., Virginia Polytechnic Institute and State University at Blacksburg, 1991, M.S., The Georgia Institute of Technology, 1972, M.S., Virginia Polytechnic Institute and State University at Blacksburg, 1977, B.S., The Georgia Institute of Technology, 1970

VanDusseldorp, Trisha, A, Assistant Professor, Ph.D., University of New Mexico, 2016, M.S., University of Wisconsin-LaCrosse, 2013, B.S., Southwest Missouri State University, 2011

VanDyke, Michael, W, Associate Professor, Ph.D., California Institute of Technology, 1984, B.A., Monmouth College, 1979

VandeVen, Susan, H, Senior Lecturer, M.B.A., University of Akron, The, 1985, M.S., Georgia Institute of Technology, The, 1993, B.S., Purdue University, 1979

Vandenbussche, Jennifer, R, Associate Professor, Ph.D., University of Illinois at Urbana-Champaign, 2008, M.S., University of Illinois at Urbana-Champaign, 2005, B.MUS., State University of New York, 2000

Varagona, Lynn, M, Assistant Professor, Ph.D., Georgia State University, 1997, M.B.A., Emory University, 2005, M.S.N., Yale University, 1987, B.S.N., University of Florida, 1983

Vasquez, Anete, Associate Professor, Ph.D., University of South Florida, 2008, M.Ed., University of Florida, 1992, B.A., University of Florida, 1990

Vaught, Seneca, D, Associate Professor, Ph.D., Bowling Green State University, 2006, M.A., Bowling Green State University, 2003, B.A., Oakwood College, 2001

Veazie, David, R, Professor, Ph.D., Georgia Institute of Technology, The, 1993, M.S., Georgia Institute of Technology, The, 1987, B.S., Southern University, 1986

Vega, Anissa, L, Associate Professor, Ph.D., Georgia State University, 2010, M.S., The University of Tennessee, 2002, B.S., The University of Tennessee, 2001

Veliyath, Rajaram, Professor, Ph.D., University of Pittsburgh, 1985, M.B.A., Indian Institute of Management, 1978, M.B.A., Indian Institute of Management, 1978, B.S., Indian Institute of Technology, 1973

Verma, Monisha, Lecturer, M.B.A., Bentley University, 2007, M.S., University of Pune, 1999, B.S., University of Pune, 1999

Viakinnou-Brinson, Lucie, Professor, Ph.D., Emory University, 2006, M.A., University of North Florida, 1987, M.A., University of Florida, 2001, B.A., Universite Nationale du Benin, 1985

Vickrey, Mark, D, Senior Lecturer, M.A., Appalachian State University, 1987, B.A., University of Central Florida, 1979

Vizcarrondo, Thomas, E, Assistant Professor, Ph.D., Louisiana State University and A & M College, 2013, M.A., University of Central Florida, 2004, B.S.B.A., University of Tulsa, 1983

Vladimirov, Katya, Professor, Ph.D., Georgetown University, 1998, M.A., George Mason University, 1993, M.A., Moscow State Institute for History and Archives, 1985, B.A., Moscow State Institute for History and Archives, 1982

Vogelien, Dale, Professor, Ph.D., The University of Tennessee, 1993, M.S., The University of Tennessee, 1987, B.S., The State University of New York at Plattsburgh, 1981

Voogt, Pieter, G, Professor, Ph.D., Georgia State University, 1997, M.A., Vrije University Amsterdam, 1980, B.S., Vrije University Amsterdam, 1976

Wade-Berg, Jennifer, A, Associate Professor, Ph.D., The University of Georgia, 2000, M.P.A., The University of Georgia, 1995, B.A., Wesleyan University, 1992

Wadsworth, Benjamin, K, Associate Professor, Ph.D., University of Rochester, 2008, M.A., University of Rochester, 2003, B.M., Oberlin College, 1998

Wagner, Jeffrey, H, Assistant Professor, M.S.E.E., Georgia Institute of Technology, The, 1990, B.E.E., Georgia Institute of Technology, The, 1989

Wagner, Vanda, D, Professor, Ph.D., University of South Florida, 2007, M.S., Georgia State University, 1993, A.S.N., Tallahassee Community College, 1984

Wakeling, Victor, K, Senior Lecturer, M.B.A., Georgia State University, 1989, B.A., The Pennsylvania State University, 1973, B.A., The Pennsylvania State University, 1973

Wakeman, Paul, R, Lecturer, Ph.D., Marquette University, 2013, M.A., St. Bonaventure University, 2007, B.A., Michigan State University, 1993

Wallace, Carolyn, S, Professor, Ed.D., University of Michigan, 1993, M.S., Arizona State University, 1983, B.S., University of California, Irvine, 1978

Waller, Matthew, T, Lecturer, M.A., Georgia State University, 2010, M.Ed., The University of Georgia, 1997, B.S.Ed., The University of Georgia, 1995

Wang, Liancheng, Professor, Ph.D., Mississippi State University, 2000, M.S., Jilin University, 1989, B.S., Jilin University, 1984

Wang, Long, Professor, Ph.D., University of Wisconsin - Milwaukee, 1995, M.S., University of Wisconsin - Milwaukee, 1989, B.S., Shanxi Teachers University, 1984

Wang, Min, Assistant Professor, Ph.D., Northern Illinois University, 2011, M.S., Northern Illinois University, 2010, M.S., Ocean University of Qingdao, 2006, B.S., Ocean University of Qingdao, 2003

Wang, Ying, Associate Professor, Ph.D., University of British Columbia, The, 2008, M.S., Shanghai Jiao Tong University, 1999, B.S., Shanghai Jiao Tong University, 1991

Ward, Jennifer, Assistant Professor, Ph.D., University of South Florida, 2017, M.S., University of New York College at Geneseo, 2007, B.A., University of New York College at Geneseo, 2005

Warner, Mark, L, Professor, Ed.D., Appalachian State University, 1997, M.Ed., Antioch College, 1974, B.S., University of Pennsylvania, 1970

Warren, John, A, Associate Professor, B.M., University of Cincinnati, 1984

Washington, Lynn, M, Lecturer, Ph.D., Morgan State University, 2013, M.A., Jackson State University, 2004, B.A., Jackson State University, 2003

Watanabe, Tadanobu, Professor, Ph.D., Florida State University, 1991, M.S., Purdue University, 1986, B.A., Taylor University, 1984

Watkins, Jacqueline, M, Librarian Assistant Professor, M.L.I.S., Valdosta State University, 2016, B.A., Kennesaw State University, 2013

Watson, Steven, C, Associate Professor, Ph.D., Vanderbilt University, 1996, M.A., Vanderbilt University, 1992, B.A., Furman University, 1991

Watson, Virginia, R, Associate Professor, Ph.D., Clemson University, 1988, M.S., Clemson University, 1986, B.S., Mars Hill College, 1984

Watts, Alan, P, Lecturer, M.A., University of Tennessee - Knoxville, The, 2005, B.A., University of Tennessee - Knoxville, The, 2003, B.S., University of Tennessee - Knoxville, The, 2003

Way, Albert, G, Associate Professor, Ph.D., The University of Georgia, 2008, M.A., The University of Mississippi, 1999, B.A., Mercer University, 1995

Way, Irene, H, Lecturer, Ph.D., The University of Georgia, 2010, M.A., The University of Georgia, 2001, A.B., The University of Georgia, 1995, A.B., The University of Georgia, 1995

Weand, Matthew, Associate Professor, Ph.D., University of Kentucky, 2010, M.S., Ohio University, 2001, B.S., Tufts University, 1997

Webb, Catherine, A, Lecturer, M.A., Georgia State University, 2014, B.A., University of Georgia, The, 1999

Wedge, Todd, Assistant Professor, M.M., Northwestern University, 2005, B.M., Oberlin College, 2003

Weidner, Maureen, M, Senior Lecturer, M.S., Texas A&M University, 1980, B.S., Texas A&M University, 1978

Wells, Jennifer, B, Assistant Professor, Ph.D., The University of Georgia, 2015, M.A., Michigan State University, 2013, B.A., Albion College, 2001

Welty, Christopher, Associate Professor, M.ARCH, Georgia Institute of Technology, The, 1996, B.S., Georgia Institute of Technology, The, 1990

Wen, Jianming, Assistant Professor, Ph.D., University of Maryland, 2007, B.S., Shandong University, 2001

Wermert, James, F, Senior Lecturer, M.B.A., Harvard University, 1978, B.A., Cornell University, 1971

Wertz, Emma, K, Associate Professor, Ph.D., The University of Tennessee at Knoxville, 2008, M.S., The University of Tennessee at Knoxville, 2005, B.S., The University of Tennessee at Knoxville, 1997

Westlund, Erik, E, Associate Professor, Ph.D., Michigan Technological University, 2010, M.S., Michigan Technological University, 2006, B.S., Northland College, 2003

Wetherhead, Debra, L, Lecturer, M.A., Kennesaw State University, 2015, B.S.J., University of Florida, 1979

White, Denise, C, Senior Lecturer, Ph.D., Georgia State University, 2012, M.A., University of Charleston, 2000, B.A., College of Charleston, 1998

White, Katherine, R, Assistant Professor, Ph.D., University of Texas, The, 2012, M.A., University of Texas, The, 2009, B.S., University of Texas, The, 2007

White, Kenneth, M, Associate Professor, J.D., University of San Diego, 2001, M.A., San Diego State University, 2004, B.A., San Jose State University, 1998

White, Mary, A, Professor, Ph.D., The University of Alabama at Birmingham, 2000, M.N., Emory University, 1980, B.S., Florida State University, 1975

White, William, A, Lecturer, Ph.D., Georgia State University, 1996, M.S., Georgia State University, 1991, B.S., University of California, Davis, 1989

Whitehead, Andrew, K, Associate Professor, Ph.D., University College Cork, 2012, M.A., Brock University, 2008, B.A., Brock University, 2007

Whitlock, Reta, U, Professor, Ph.D., Louisiana State University, 2005, M.Ed., Coppin State University, 2001, B.S.Ed., Athens State College, 1987

Whitlock, Susan, B, Assistant Professor, M.Ed., The University of Georgia, 1979, B.S., Mars Hill College, 1976

Whitman, Michael, E, Professor, Ph.D., Auburn University, 1994, M.B.A., Auburn University, 1991, B.S.B.A., Auburn University, 1986

Widmier, Scott, Associate Professor, Ph.D., Arizona State University, 1999, B.A., Texas Christian University, 1991

Wikstrom, Jan, K, Assistant Professor, M.F.A., The George Washington University, 2011, B.F.A., The University of Southern California, 1974

Wilcox, Daren, R, Assistant Professor, M.S.E.E., University of Central Florida, 1992, B.S.E.E., University of Central Florida, 1990

Wiles, Gregory, L, Associate Professor, Ph.D., Walden University, 2014, M.S., Georgia Institute of Technology, The, 1992, B.S., University of Tennessee, The, 1981

Willard, Jennifer, L, Professor, Ph.D., Iowa State University of Science and Technology, 2008, M.S., Iowa State University of Science and Technology, 2006, B.A., University of Northern Iowa, 2002

Willett, Jennifer, B, Associate Professor, Ph.D., The University of Southern Mississippi, 2002, M.S., The University of Southern Mississippi, 1999, B.S., Towson University, 1998

Williams, Brandi, L, Assistant Professor, M.Ed., University of Georgia, The, 2012, M.S., Southern Polytechnic State University, 2011, B.S., Southern Polytechnic State University, 2008

Williams, Stacey, G, Lecturer, M.A., Clark Atlanta University, 1992, B.A., University of South Carolina at Columbia, 1988

Williamson, Adrienne, L, Professor, Ph.D., The University of Memphis, 2006, M.S., Augusta State University, 1995, B.S., University of South Carolina at Aiken, 1991

Williamson, Jo, Professor, Ph.D., University of Illinois at Urbana-Champaign, 2002, M.A., The University of Kansas, 1991, B.A., Olivet Nazarene University, 1987

Williamson, Kenneth, M, Associate Professor, Ph.D., The University of North Carolina at Chapel Hill, 2005, B.A., Carleton College, 1988

Wills, Brian, Professor, Ph.D., The University of Georgia, 1991, M.A., The University of Georgia, 1985, B.A., University of Richmond, 1981

Wilson, Matthew, L, Assistant Professor, Ph.D., University of Florida, 2018, M.A.T., Willamette University, 2007, B.A., University of Oregon, 1997

Wilson, Matthew, M, Professor, M.S., University of Florida, 1993, B.S., Southern Polytechnic State University, 1991

Wilson, Maurice, Associate Professor, Ed.D., The University of Tennessee, 2002, M.S., Tennessee State University, 1996, B.S., Tennessee State University, 1994

Wilson, Ralph, T, Professor, Ph.D., The University of Utah, 1993, M.A., Kansas State University, 1983, B.A., Baldwin Wallace College, 1979

Winsor, Aubrey, B, Lecturer, Bachelor of Industrial Design, Auburn University, 1986, M.S., Troy University, 2009

Witt, Leonard, Professor, M.A., University of New Hampshire, 1978, B.S., High Point University, 1966

Wolf, Erin, L, Lecturer, M.B.A., Harvard University, 1984, B.A., Duke University, 1979

Wolfe, Amanda, M, Lecturer, Ph.D., Georgia State University, 2012, Ed.S., Georgia State University, 2007, M.A., Georgia State University, 2011, M.S., Georgia State University, 2006, B.S., The University of Georgia, 2003, B.S., The University of Georgia, 2003

Womack, Deanna, F, Professor, Ph.D., The University of Kansas, 1982, M.A., The University of Kansas, 1980, B.A., University of Houston, 1971

Wood, Barbara, A, Librarian Associate Professor, M.L.I.S., Wayne State University, 2001, B.S., Northern Michigan University, 1978

Wood, Patricia, P, Senior Lecturer, M.A., Universidad de Salamanca, 2008, M.B.A., Middle Tennessee State University, 1987, B.S., Politecnic College, 1983

Wooten, M, B, Assistant Professor, M.P.A., Kennesaw State University, 2001, B.A., Furman University, 1994

Worthy, Roneisha, Assistant Professor, Ph.D., Vanderbilt University, 2014, Master of Engineering, Tennessee State University, 2008, B.S., Tennessee State University, 2006

Woszczynski, Amy, B, Professor, Ph.D., Clemson University, 2000, M.B.A., Kennesaw State University, 1991, B.S., The Georgia Institute of Technology, 1988

Wright, Charles, W, Senior Lecturer, M.M., Georgia State University, 2002, B.A., The University of Georgia, 1995

Wright, James, M, Associate Professor, Ed.D., Kennesaw State University, 2012, Ed.S., Kennesaw State University, 2008, Ed.S., The University of Georgia, 1993, M.Ed., Vanderbilt University, 1990, B.S.Ed., The University of Georgia, 1989

Wuertz Hurley, Stefanie, C, Senior Lecturer, M.A., Universitat Trier, 2007

Wynn, Charles, T, Associate Professor, Ph.D., Georgia State University, 1989, M.A., West Georgia College, 1983, A.B., West Georgia College, 1981

Xie, Ying, Professor, Ph.D., University of Louisiana at Lafayette, 2004, M.S., University of Louisiana at Lafayette, 2001, M.S., Chongqing University, 1998, B.S., Chongqing University, 1995 (*on leave*)

Xu, Xiaohua, Assistant Professor, Ph.D., Illinois Institute of Technology, 2012, M.S., Illinois Institute of Technology, 2011, B.E., Zhejiang University, 2007

Yang, Bo, Professor, Ph.D., Mississippi State University, 2002, M.S., Ocean University of Qingdao, 1994, B.S., Shandong University, 1991

Yang, Jidong, Associate Professor, Ph.D., University of South Florida, 2004, M.S.C.E., University of South Florida, 2001, B.S.C.E., Hebei Agricultural University, 1996

Yang, Ming, Professor, Ph.D., Wright State University, 2006, M.E., Tianjin University, 2000, B.S., Tianjin University, 1997

Yarde, Cheryl, A, Clinical Assistant Professor, M.S.N., Kennesaw State University, 2011, B.S., Pace University, 1988

Yee, Tien, M, Assistant Professor, Ph.D., University of Kentucky, 2009, M.S.C.E., University of Kentucky, 2001, B.S.C.E., University of Kentucky, 1999

Young, Jana, Associate Professor, M.M., Northeast Louisiana University, 1985, B.M., Baylor University, 1976, B.M.E., Baylor University, 1976

Young, Susan, L, Assistant Professor, Ph.D., Ohio State University, The, 2012, M.B.A., Northern Illinois University, 2003, B.A., University of Michigan, The, 1989

Yunek, Jeffrey, S, Assistant Professor, Ph.D., Louisiana State University and Agricultural and Mechanical College, 2013, M.M., Florida State University, 2009, B.A., Concordia College, 2006

Zafar, Humayun, Associate Professor, Ph.D., The University of Texas at San Antonio, 2010, M.S., Rochester Institute of Technology, 2005, B.S., Saint Mary's University, 2003

Zamani, Pegah, Associate Professor, Ph.D., Georgia Institute of Technology, The, 2008, M.ARCH, Azad University, 1996, M.Phil., University of Tehran, 2001

Zhan, Ginny, Q, Professor, Ph.D., Cornell University, 1995, M.A., Cornell University, 1991, B.A., East China Normal University, 1986

Zhan, Zhaoguo, Assistant Professor, Ph.D., Brown University, 2011, M.A., Brown University, 2007, M.S., London School of Economics, 2005, B.S., Renmin University of China, 2003

Zhang, Chi, Associate Professor, Ph.D., University of Nebraska at Omaha, 2009, M.S., University of Nebraska at Omaha, 2000, M.S.Ed., University of Nebraska - Kearney, 1998, B.S., Beijing Normal University, China, 1990

Zhang, Jiayan, Professor, Ph.D., University of California, Los Angeles, 2004, M.A., Nanjing Agricultural University, 1990, M.A., University of California, Los Angeles, 2000, B.A., Hubei Agricultural College, 1984

Zhang, Minjiao, Associate Professor, Ph.D., Ohio State University, The, 2013, M.S., Ohio State University, The, 2010, B.E., Xi'an Jiaotong University, 2009, B.S., Xi'an Jiaotong University, 2009

Zheng, Binyao, Professor, Ph.D., The University of Memphis, 1996, M.S., The University of Memphis, 1991, B.A., Central China Normal University, 1982

Zheng, Guangzhi, Associate Professor, Ph.D., Georgia State University, 2009, M.S., San Francisco State University, 2003, B.A., Southwestern University of Finance and Economics, 1999

Zhou, Wei, Associate Professor, Ph.D., Texas Tech University, 2005, M.S., Tongji University, 2000, B.S., Tongji University, 1998

Ziegler, Christine, B, Professor, Ph.D., Syracuse University, 1982, M.S., Syracuse University, 1981, B.S., Syracuse University, 1978

Ziegler, Marcella, Y, Clinical Assistant Professor, M.S.N., Loyola University New Orleans, 2009, B.S., William Carey International University, 1990

Zimmer, Katherine, E, Associate Professor, Ph.D., University of Florida, 2013, M.Ed., University of Central Florida, 2007, B.A., Saint Leo University, 2002

Zimmermann, Ulf, Professor, Ph.D., The University of Texas at Austin, 1971, M.A., The University of Texas at Austin, 1967, M.A., University of Maryland at College Park, 1981, B.A., The University of Texas at Austin, 1965

Zong, Guichun, Professor, Ed.D., Florida International University - Fort Lauderdale Campus, 1999, M.A., Beijing Normal University, China, 1991, B.A., Beijing Normal University, China, 1988

Emeriti Faculty

Abusaid	Ahmad	M	Associate Professor Emeritus	
Adams	Janet	S	Professor Emeritus	Management
Akanbi	Linda	B	Professor Emeritus	Reading Education
Akridge	Russell		Associate Professor Emeritus	Physics
Alexander	Carole	L	Assistant Professor Emeritus	History
Alsup	Rodney	G	Professor Emeritus	Accounting
Anderson	Jeffrey	F	Associate Professor Emeritus	Communication
Anderson	Thomas	F	Associate Professor Emeritus	Economics
Aronoff	Craig	E	Professor Emeritus	Management
Ash	Charles	W	Professor Emeritus	Health, Physical Education & Sport Science
Astrachan	Joseph	H	Professor Emeritus	Management
Atkinson	Melvis	E	Professor Emeritus	Mathematics and Mathematics Education
Bacman	Charles	L	Professor Emeritus	
Bairan	Annette		Professor Emeritus	Nursing
Ball	Thomas	R	Associate Dean Emeritus	Engineering
Barnum	Carol	M	Professor Emeritus	
Barrier	Robert	G	Professor Emeritus	English
Bennett	David	M	Professor Emeritus	
Bennett	David	N	Professor Emeritus	Nursing
Bernal	Barbara	V	Professor Emeritus	Software Engineering
Bill	M	L	Professor Emeritus	Social Work Administration
Bobia	Rosa		Professor Emeritus	French

Boeri	Miriam	W	Associate Professor Emeritus	Sociology
Bostick	Peter	E	Professor Emeritus	Biology
Bowden	Martha	F	Professor Emeritus	English
Braden	Stephen	W	Associate Professor Emeritus	Communication
Bradham	JoAllen		Professor Emeritus	English
Brooks	Glenn	E	Professor Emeritus	
Brown	Susan	B	Professor Emeritus	Special Education
Buchanan	W.	Wray	Professor Emeritus	Marketing
Bumgarner	Mary	K	Professor Emeritus	Economics
Burnett, Jr.	William	C.	Professor Emeritus	
Butler	Frank	A	Professor Emeritus	Physics
Camann	Mary	A	Associate Professor Emeritus	Nursing
Capozzoli	Ernest	A	Associate Professor Emeritus	Information Systems
Carmichael	Thomas	H	Professor Emeritus	
Casey	Rebecca	S	Associate Professor Emeritus	English
Chai	Nam-Yearl		Professor Emeritus	Political Science
Chan	Tak	C	Professor Emeritus	Educational Leadership
Clune	Richard	R	Professor Emeritus	Accounting
Collins	Mitchell	A	Professor Emeritus	Health and Physical Education
Combs	Leon	L	Professor Emeritus	Chemistry & Biochemistry
Cope	James	R	Professor Emeritus	English and English Education
Cowan	Clifford	W	Professor Emeritus	
Crutchfield	Ann	D	Assistant Professor Emeritus	Nursing
Curley	Michael	D	Professor Emeritus	Economics & Finance

Currin	Thomas	R	Dean and Professor Emeritus	Civil Engineering
Dabundo	Laura		Professor Emeritus	English
Damico	Linda	H	Associate Professor Emeritus	Philosophy
Daniell	Beth		Professor Emeritus	English
Davis	Bowman		Professor Emeritus	Biology
Davis	Dorothy	D	Assistant Professor Emeritus	Biology
Davis	Herbert	L	Professor Emeritus	Biology
Davis	Kim		Professor Emeritus	
Davis	Patricia	E	Professor Emeritus	English
Davis	Sidney		Professor Emeritus	
DeJarnett	Patricia	S	Professor Emeritus	
Desman	Robert	A	Associate Professor Emeritus	Management
DeVillar	Robert	A	Professor Emeritus	Education
Donovan	Thomas	J	Associate Professor Emeritus	Health Promotion and Physical Education
Dreyer	Robert	N	Professor Emeritus	Electrical Engineering Technology
Drummond	Pamela	J	Professor Emeritus	Mathematics and Mathematics Education
Duggins	Sheryl	L	Professor Emeritus	Software Engineering
Economopoulos	Marjorie	P	Professor Emeritus	Middle Grades Mathematics Education
Elango	Lovett	Z	Professor Emeritus	History
Elledge	James	M	Professor Emeritus	English
Elmore	Randy	F	Professor Emeritus	Elementary and Middle Grades Education
Farnsworth	Beverly	J	Professor Emeritus	Nursing
Fausett	James	G	Professor Emeritus	

Fay	Donald	J	Associate Professor Emeritus	English
Fedeli	Lynn	P	Professor Emeritus	Spanish and Italian
Ferguson	Barbara	W	Professor Emeritus	Mathematics and Mathematics Education
Firment	Michael	J	Associate Professor Emeritus	Psychology
Fischer	Robert	J	Professor Emeritus	
Fitzgerald	Elizabeth	M	Professor Emeritus	Management
Fleiszar	Kathleen		Professor Emeritus	Biology
Flynn	Janice		Professor Emeritus	Nursing
Franklin	Patricia	S	Professor Emeritus	
Frey	Ralph	W	Professor Emeritus	Accounting
Gabrielli	Alan	M	Professor Emeritus	Chemistry
Galliano	Grace		Professor Emeritus	Psychology
Garner	Mary	L	Professor Emeritus	Mathematics
Gibson	Wayne	R	Professor Emeritus	Music
Giles	Martha	A	Associate Librarian Emeritus	
Golden	Ben	R	Professor Emeritus	Biology
Gooch	Thomas		Assistant Professor Emeritus	Mathematics and Computer Science
Gordon	John	T	Professor Emeritus	
Graham	Dorothy	H	Professor Emeritus	English
Grashof	John	F	Professo Emeritus	Management and Marketing
Greene	Robert		Librarian Emeritus	
Greenwell	Gregory	A	Associate Professor Emeritus	Accounting
Greider	John	C	Professor Emeritus	English
Griffin	Roberta	T	Associate Professor Emeritus	Art

Griffith	Martha	A	Associate Professor Emeritus	Public Administration
Haddle	Gillian		Professor Emeritus	
Hair	Joseph	F	Professor Emeritus	Marketing and Professional Sales
Hall	Allan	J	Professor Emeritus	
Hall	Kathleen	A	Professor Emeritus	
Hall	Nancy	G	Professor Emeritus	Decision Sciences
Hall	Tommy	P	Professor Emeritus	Accounting
Hamrick	James	L	Professor Emeritus	
Harrell	Carol	P	Professor Emeritus	English
Harris	I.	David	Professor Emeritus	Physical Education
Hein	Virginia	H	Professor Emeritus	
Hepler	Ruth	G	Professor Emeritus	Psychology
Hicks-Coolick	Anne		Associate Professor Emeritus	Human Services
Hill	Elliott	M	Associate Professor Emeritus	English
Hill, IV.	G William		Professor Emeritus	Psychology
Hill	Mary		Professor Emeritus	Accounting
Hill	Robert	W	Professor Emeritus	English
Hinton	Virginia	C	Professor Emeritus	English
Holbein	Marie	F	Professor Emeritus	Teaching, Learning and Leadership
Holliday	Henry	E	Associate Professor Emeritus	Educational Leadership
Holtz	Carol		Professor Emeritus	Nursing
Holzman	Judy	M	Professor Emeritus	ESOL
Hopper	Eleanor	T	Associate Professor Emeritus	Educational Leadership
Hornbeck	David	E	Professor Emeritus	

Horne	Christina	D	Professor Emeritus	Nursing
Howell	Loretta	L	Professor Emeritus	Elementary and Early Childhood Education
Hoyt	Kristin	L	Associate Professor Emeritus	French and Foreign Language Education
Hubbard	Elaine	M	Professor Emeritus	Mathematics
Huck	Eugene	R	Distinguished Professor Emeritus	History
Hunt	Hugh	C	Associate Professor Emeritus	Philosophy
Hunt	Ruston	M	Associate Professor Emeritus	Systems Engineering
Itkowitz	Howard	F	Professor Emeritus	
Jackson	Kenneth	W	Associate Professor Emeritus	Industrial Engineering
Jarrell	Willoughby	G	Professor Emeritus	Political Science
Johnston	Linda	M	Professor Emeritus	Conflict Management
Jones	David	M	Associate Professor Emeritus	English
Karcher	Barbara	C	Professor Emeritus	Sociology
Kaufman	Harry	F	Professor Emeritus	Architecture
Keene	Thomas	H	Professor Emeritus	History
Keown	John	L	Professor Emeritus	
King	Merle	S	Associate Professor Emeritus	Information Systems
King	Nancy	S	Professor Emeritus	English
Kropa	James	C	Professor Emeritus	
Landrum	Mildred		Professor Emeritus	Management
Lapides	Paul	D	Associate Professor Emeritus	Management
Lasher	Harry	J	Professor Emeritus	Management

Laval	June	K	Professor Emeritus	French and Spanish
Lester	Army		Professor Emeritus	Developmental Biology
Lewis	Gary	C	Professor Emeritus	Computer Science and Physics
Manners, Jr.	George	E	Professor Emeritus	Accounting and Management
Martin	David	J	Professor Emeritus	Science Education
McAllister	Elaine		Professor Emeritus	Foreign Language
McCullagh	Steven	P	Associate Professor Emeritus	Biology
McHaney	Jane	H	Professor Emeritus	Elementary Education
McKee	James	E	Associate Professor Emeritus	
Meeks	Joseph	D	Dean and Professor Emeritus	Music
Mitchell	Beverly	F	Professor Emeritus	Health Promotion and Physical Education
Mitchell	Judith	A	Professor Emeritus	Curriculum and Instruction
Moomaw	Ellen		Associate Professor Emeritus	Chemistry
Moore	J.	Thomas	Professor Emeritus	Accounting
Morgan	David	L	Associate Professor Emeritus	Mathematics
Morgan	Inez	P	Director Emeritus	Counseling
Morris	Paula	H	Professor Emeritus	Accounting
Morrow	Susan	R	Professor Emeritus	
Moses	Oral	L	Professor Emeritus	Music
Murphy	Michael		Professor Emeritus	
Noble	Linda	M	Professor Emeritus	Psychology
Norman	Donald	C	Associate Professor Emeritus	Physics
Nystrom	Elsa	A	Professor Emeritus	History

Oliver	Betty	O	Professor Emeritus	
Orlandella	Michael	R	Associate Professor Emeritus	Civil Engineering
Ortiz	Carlos		Professor Emeritus	
Oxford	Earl	T	Professor Emeritus	
Palmer	Grady		Associate Professor Emeritus	Health, Physical Education and Sport Science
Papageorge	Linda	M	Associate Professor Emeritus	History
Park	Jong	H	Professor Emeritus	Economics and Finance
Patrick	Russell		Professor Emeritus	Physics
Paul	Robert	C	Professor Emeritus	Biology
Pearce	Britt	K	Professor Emeritus	
Perkins	Julia	L	Dean and Professor Emeritus	Nursing
Peterson	Laurence	I	Dean and Professor Emeritus	Chemistry
Pfeiffer	William	S	Professor Emeritus	
Pierannunzi	Carol	A	Professor Emeritus	Political Science
Pritchett	Thomas	K	Professor Emeritus	Marketing
Prochaska	Nancy	A	Associate Professor Emeritus	Management
Pullen	Ann	W	Professor Emeritus	History
Rascati	Ralph	J	Dean and Professor Emeritus	Biology
Reeve	Kay	A	Professor Emeritus	History
Reggio	Patricia	H	Professor Emeritus	Chemistry
Rhodes	Dallas	D	Professor Emeritus	Geology
Rhyne	Pamela	J	Professor Emeritus	Biology and
Ridley	Helen	S	Professor Emeritus	Political Science

Roach, Jr.	S.	Federick	Professor Emeritus	History
Robbins	Sarah	R	Professor Emeritus	English and English Education
Roberts	Gary	B	Professor Emeritus	Management
Roberts	Morris	W	Professor Emeritus	Nursing
Roberts	Vanice	W	Professor Emeritus	Nursing
Robinson	George	W	Professor Emeritus	
Robley	Lois	R	Professor Emeritus	Nursing
Rodgers	Faye	H	Professor Emeritus	Accounting
Rogato	Mary	E	Assistant Professor Emeritus	English
Rogers, Jr.	Thomas	H	Director of Admissions Emeritus	
Roper	Thomas	B	Associate Professor Emeritus	Business Law
Rugg	Edwin	A	Professor Emeritus	Educational Research
Russ	Donald	D	Professor Emeritus	English
Sabbarese	Donald	M	Professor Emeritus	Economics
Salter, III	M.	Thomas	Professor Emeritus	Art
Sawyer	Jerry	D	Professor Emeritus	Decision Sciences
Scales	Sam	A	Professor Emeritus	
Schaufele	Christopher	L	Professor Emeritus	Mathematics
Scherer	Stephen	E	Professor Emeritus	Mathematics
Schiffer	Gail	B	Professor Emeritus	Biology
Schlact	Shelby	A	Professor Emeritus	Business Law
Schlesinger	Richard		Assistant Professor Emeritus	Computer Science & Information Systems
Schroeder	Ronald	N	Associate Professor Emeritus	
Scott	Thomas	A	Professor Emeritus	History
Sessum	Joseph	L	Professor Emeritus	Information Systems

Setzer	Charles	B	Professor Emeritus	Computer Science & Information Systems
Shealy, Jr.	Emmitt	H	Professor Emeritus	History
Siegel	Betty	L	President Emeritus	Psychology
Sims	Marlene	R	Associate Professor Emeritus	Mathematics
Sims	Stanley	G	Assistant Professor Emeritus	Mathematics
Slater-Moody	Judith	R	Associate Professor Emeritus	Human Services
Smith	Ann	D	Professor Emeritus	Curriculum & Instruction
Smith	Betty	A	Professor Emeritus	Anthropology
Snyder	Alice	F	Associate Professor Emeritus	Elementary and Early Childhood Education
Sparks	Donald	J	Associate Professor Emeritus	Mathematics
Sperry	Jeanne	A	Associate Professor Emeritus	Art
Spisak	Rita	J	Librarian Associate Professor Emeritus	Library Science
Stevenson	Barbara	J	Professor Emeritus	English
Stivers	Bonnie		Professor Emeritus	Accounting
Stroud	Nancy	E	Professor Emeritus	History & Social Science Education
Swan	William	W	Professor Emeritus	Educational Leadership
Swindell	Barbara	J	Professor Emeritus	Art
Tambe	Balkrishna	R	Professor Emeritus	
Tate	James	B	Associate Professor Emeritus	History
Taylor	Gloria	A	Professor Emeritus	Nursing
Taylor	Patrick	L	Professor Emeritus	Art and Art Education
Tebeest	Ronald	H	Assistant Professor Emeritus	Political Science

Terry	Alice Granade	W	Professor Emeritus	Social Studies Education
Thomas	Walter		Professor Emeritus	Apparel and Textile
Thompson	William	P	Professor Emeritus	Business Administration
Thomson	Karen	M	Professor Emeritus	English
Thomson	Thomas	R	Professor Emeritus	Mathematics
Tippens	Paul		Professor Emeritus	
Trendell	Harold	R	Associate Professor Emeritus	Geography
Troemel	Hans	A	Professor Emeritus	
Tsui	Frank		Associate Professor Emeritus	Computer Science
Tucker	Lee	M	Professor Emeritus	
Tumlin	John	S	Professor Emeritus	
Turner	Carol	L	Professor Emeritus	English
Vincent	Stephen	F	Associate Professor Emeritus	
Vinelli	Jose		Associate Professor Emeritus	
Vizzini	Edward	A	Dean and Professor Emeritus	
Wachniak	Lana	J	Professor Emeritus	Criminal Justice and Sociology
Walker	Gail	B	Associate Professor Emeritus	English
Wallace	Deborah	S	Professor Emeritus	Special Education
Walls	June		Associate Professor Emeritus	Nursing
Walters	Margaret	B	Associate Professor Emeritus	English
Walters	Michael	J	Associate Professor Emeritus	Music & Music Education

Wang	Jin		Professor Emeritus	Health Promotion and Physical Education
Watkins	James	D	Professor Emeritus	Music
Webb	Linda	C	Professor Emeritus	Educational Leadership
Weeks	Charles	J	Professor Emeritus	
Wess	Robert	C	Professor Emeritus	
Whitenton	James	B	Professor Emeritus	Physics
Willey	Diane	L	Professor Emeritus	Educational Psychology
Williams, III	Britain	J	Professor Emeritus	Computer Science & Information Systems
Williams	Daniel	J	Professor Emeritus	Chemistry
Williams	Mary	K	Associate Professor Emeritus	English
Williams	Orren	W	Professor Emeritus	
Wilson	Astrid	H	Professor Emeritus	Nursing
Wingfield	Harold		Professor Emeritus	Political Science
Wojnowiak	Paul		Professor Emeritus	
Xu	Chong-wei		Professor Emeritus	Computer Science
Yancy	Robert	J	Professor Emeritus	
Young	Donald	F	Professor Emeritus	
Young	Ronald	C	Professor Emeritus	
Yow	Paula		Professor Emeritus	English
Zebich-Knos	Michele		Professor Emeritus	Political Science
Zia	Omar		Professor Emeritus	
Ziegler	John	A	Professor Emeritus	
Zinsmeister	Dorothy	D	Professor Emeritus	Biology
Zoghby	Mary	D	Professor Emeritus	English
Zumoff	Nancy		Professor Emeritus	Mathematics and Computer Science

