General Education Requirements (See Degreeworks for Prerequisites)

| A-1 | ENGL 1101 Composition I | 3 |  |
| :--- | :--- | :---: | :---: |
|  | ENGL 1102 Composition II | 3 |  |
| A-2 | MATH 1112 College Trigonometry or <br> MATH 1113 Precalculus | 3 |  |

Area A: Essential Skills ( 9 credit hours)
All Area A courses must be completed within the first 30 credit hours with a grade of $C$ or higher.

| B-1 | ECON 1000 Contemporary Economic Issues | 2 |  |
| :--- | :--- | :--- | :--- |
| B-2 | COM 1100 Human Communication | 3 |  |

Area B: Institutional Options (5 credit hours) COM 1100 is essential for IT majors.

| C-1 | Literature: ENGL 2110, 2111, 2112, 2120, <br> 2121, 2122, 2130, 2131, 2132, or 2300 | 3 |  |
| :--- | :--- | :--- | :--- |
| C-2 | Arts and Culture: ART 1107, MUSI 1107, <br> DANC 1107, or TPS 1107 | 3 |  |

Area C: Humanities, Fine Arts, and Ethics ( 6 cr hrs) Choose one course from each area.

| D-1 | MATH 1160 Elementary Applied Calculus I or <br>  <br>  <br> MATH 1190 Calculus I | $3-$ <br> 4 |  |
| :--- | :--- | :---: | :---: |
|  | BIOL 1107/L, BIOL 1108/L, CHEM 1211/L, <br> CHEM 1212/L, PHYS 1111/L, PHYS 1112/L, | 8 |  |
|  | PHYS 2211/L, PHYS 2212/L, SCI 1101, <br> GEOG 1112, GEOG 1113 |  |  |

Area D: Science, Math, and Technology (11-12 cr hrs) Information Technology majors must complete two 4 -credit hour science courses. "L" denotes the corresponding lab course.

| E-1 | POLS 1101 American Government | 3 |  |
| :--- | :--- | :---: | :--- |
| E-2 | HIST 2111 or 2112 US History | 3 |  |
| E-3 | HIST 1100, 1111, or 1112 World History | 3 |  |
| E-4 | CRJU 1101, GEOG 1101, PSYC 1101, SOCI <br> 1101, STS 1101, ANTH 1102, or ECON 2100 | 3 |  |

Area E: Social Sciences ( 12 credit hours)
Choose one course from each area for E-2, E-3, \& E-4.

## Area F Lower Division Major Requirements

| Prerequisites |  |  |  |
| :---: | :---: | :---: | :---: |
| IT 1113 Programming Principles I | None | 3 | CSE 1321 \& CSE 1321L must have a minimum grade of 'B.' |
| CSE 1321 Programming \& Problem Solving I AND CSE 1321L Programming \& Problem Solving I Lab | Co-req w/ MATH 1112, 1113, 1190, or CSE 1300 | 4 | Upon completing CSE 1321 \& CSE 1321L with a minimum grade of ' $B$,' students should request to have their major changed to the fully admitted Information Technology major. |
| IT 1323 Advanced Programming Principles AND IT 1323L Advanced Programming Principles Lab | ' B ' or better in CSE 1321/L | 4 |  |
| MATH 2332 Intro to Probability and Data Analysis or | MATH 1190 | 3 |  |
| STAT 1401 Elementary Statistics | MATH 1111, 1112, 1113 or 1190 |  |  |
| MATH 2345 Discrete Mathematics or | MATH 1112, 1113, or 1190 | 3 |  |
| CSE 2300 Discrete Structures for Computing | MATH 1113 \& CSE 1321/L |  |  |
| Carryover credit hour from Area D Group 2 Science Lab | See Area D Science requirement | 1 |  |
| Free Electives (7 credit hours) |  |  |  |

## Upper Division Major Courses

| TCOM 2010 Technical Writing | ENGL 1102 | 3 |  |
| :--- | :--- | :--- | :--- |
| CSE 3153 Database Systems | IT 1323 \& IT 1323L | 3 |  |
| CSE 3801 Professional Practices and Ethics | IT 1323 \& IT 1323L | 2 |  |
| IT 3123 Hardware \& Software Concepts | CSE 1321/L \& (IT 1113/IT <br> 1323/L) \& (CSE 2300* or MATH <br> 2345*) | 3 |  |
| IT 3203 Intro to Web Development | CSE 1321/L \& (IT 1323/L or IT <br> 1113) | 3 |  |
| IT 3223 Software Acquisition \& Project Management | CSE 1321/L or IT 1113 | 3 |  |
| IT 3423 Operating Systems Concepts \& Administration | IT 3123 | 3 |  |
| IT 4123 Electronic Commerce | IT 3203 \& CSE 3153 | 3 |  |
| IT 4323 Data Communications \& Networks | IT 3123 | 3 |  |
| IT 4423 Linux/Unix Administration | IT 3423 | 3 |  |
| IT 4683 Management of IT \& Human Computer Interaction | CSE 3153 | 3 |  |
| IT 4723 IT Policy and Law | IT 3123 \& IT 3223 | 3 |  |
| IT 4823 Information Security Administration | CSE 3153 \& IT 3123 \& (CSE 2300 <br> or MATH 2345) | 3 |  |
| IT 4983 IT Capstone | IT 3423, IT 3223, IT 3203 \& IT <br> 4323*, IT 4823* | 3 |  |

All major courses must have a minimum grade of 'C,' except for CSE 1321/L, which must have a minimum grade of ' $B$ '.

*     - can be done concurrently with course


## Concentration (12 credit hours)

Choose ONE concentration. Three of the four courses must be completed from the chosen concentration. The fourth course may be from any concentration or an approved internship credit.

| Enterprise Systems | Prerequisites |  |  |
| :--- | :--- | :--- | :--- |
| IT 4203 Advanced Web <br> Development | IT 3203 | 3 |  |
| IT 4153 Advanced Database | CSE 3153 | 3 |  |
|  <br> Administration | IT 4323 | 3 |  |
| IT 4673 Virtual IT Systems |  <br> IT 3423 \& IT <br> 4323 | 3 |  |
| IT 4713 Business Intelligence <br> Systems | CSE 3153 | 3 |  |
| IT 4490 Special Topics in <br> Enterprise Systems | Varies | 3 |  |


| Mobile and Web |  |  |  |
| :--- | :--- | :--- | :--- |
| CSE 3203 Overview of Mobile <br> Systems | IT 1323/L | 3 |  |
| IT 4203 Advanced Web <br> Development | IT 3203 | 3 |  |
| IT 4213 Mobile Web Development | CSE 3203 or <br> IT 3203 | 3 |  |
| CGDD 4203 Mobile and Casual <br> Game Development | CGDD 4003 | 3 |  |
| IT 4490 Special Topics in Mobile <br> and Web | Varies | 3 |  |

Health Information Technology
Information Assurance \& Security

| IT 4833 Wireless Security | IT 4823 or <br> CS 3502 | 3 |  |
| :--- | :--- | :--- | :--- |
| IT 4843 Ethical Hacking for <br> Effective Defense | IT 4323 or <br> CS 4622 | 3 |  |
| IT 4853 Computer Forensics | IT 4823 or <br> CS 3502 | 3 |  |
| IT 4883 Infrastructure Defense | IT 4323 | 3 |  |
| IT 4490 Special Topics in <br> Information Security | Varies | 3 |  |


| IT 3503 Foundations of HIT | ENGL 1102 | 3 |  |
| :--- | :--- | :--- | :--- |
| IT 4513 Electronic Health Record <br> Systems and Applications | IT 3503 | 3 |  |
| IT 4523 Clinical Processes and <br> Workflows | IT 3503 or <br> concurrent | 3 |  |
| IT 4533 Health Information <br> Security and Privacy | IT 3503 | 3 |  |
| IT 4490 Special Topics in Health <br> Information Technology | Varies | 3 |  |

