

# Bachelor of Applied Science in Information Technology



This is a GATED PROGRAM

Catalog Year: 2017-2018

Total Degree Credit Hours: 121

## General Education Requirements (See Degreeworks for Prerequisites)

A-1	ENGL 1101 Composition I	3	
	ENGL 1102 Composition II	3	
A-2	MATH 1113 Pre-Calculus OR	3	
	MATH 1112 College Trigonometry		

### 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	ENGL 2000-level Literature	3	
C-2	ART/DANC/MUSI/TPS 1107	3	
	Arts and Culture of the World		

### Area C: Humanities, Fine Arts, and Ethics (6 cr hrs)

Choose one course from each area.

D-1	STAT 1401 Elementary Statistics	3	
D-2	BIOL 1107/L, BIOL 1108/L, CHEM 1211/L, CHEM 1212/L, PHYS 1111/L, PHYS 1112/L, PHYS 2211/L, PHYS 2212/L, SCI 1101, GEOG 1112, GEOG 1113	8	

### 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 1100/1111/1112 World History	3	
E-4	CRJU/GEOG/PSYC/SOCI/STS 1101 or 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	
CSE 1321/L	Programming & Problem Solving I	Co-req w/ MATH 1112, 1113, 1190 or CSE 1300	4
IT 1323/L	Advanced Programming Principles	'B' or better in CSE 1321/L	4
MATH 2345	Discrete Mathematics <u>OR</u>	MATH 1112/1113/1190	3
CSE 2300	Discrete Structures	MATH 1113 & CSE 1321/L	
Technical Block – 7 Credits			7

CSE 1321 and CSE 1321L must have a minimum grade of 'B.'

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.

## Upper Division Major Courses

Prerequisites

<b>CSE 3153</b> Database Systems	IT 1323/L	3	
<b>CSE 3801</b> Professional Practices and Ethics	IT 1323/L	2	
<b>IT 3123</b> Hardware/Software Concepts	CSE 1321/L & (IT 1323/L or IT 1113) & (CSE 2300* or MATH 2345*)	3	
<b>IT 3203</b> Intro to Web Development	CSE 1321/L & (IT 1323/L or IT 1113)	3	
<b>IT 3223</b> Software Acquisition & Project Management	CSE 1321/L	3	
<b>IT 3423</b> Operating Systems Concepts & Administration	IT 3123	3	
<b>IT 3883</b> Advanced Applications Development	IT 1323/L & CSE 3153*	3	
<b>IT 4323</b> Data Communications & Networks	IT 3123	3	
<b>IT 4823</b> Information Security Administration	CSE 3153 & IT 3123 & (CSE 2300 or MATH 2345)	3	
<b>IT 4983</b> IT Capstone	IT 3423, IT 3223, IT 3203 & IT 4323*, IT 4823*	3	
<b>IT 4683</b> Management of IT & HCI	CSE 3153	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

### Technical Block (21 Credit Hours)

CIS/CIST courses from the AAS degree

Students must have a minimum grade of C on all Lower Division, Upper Division, Directed Electives and any other prerequisite's.


### Directed Electives (10 Credit Hours)

Prerequisites


At least 10 credit hours 3000/4000 level IT courses, not required as Upper Division Major Courses.