

# Bachelor of Applied Science in Information Technology



Catalog Year: 2015-2016

Total Degree Credit hours: 123

## General Education Requirements (See DegreeWorks for prerequisites) 43 credit hours

A-1	<b>ENGL 1101</b> Composition I	3	
	<b>ENGL 1102</b> Composition II	3	
A-2	<b>MATH 1113</b> Pre-Calculus	3	

### Area A: Essential Skills 9 credit hours

Must complete this area within first 30 credit hours.  
Students must have C or better on all classes in this area.

B-1	<b>STS 2105</b> Social Issues: Science & Tech	2	
B-2	<b>COM 1100</b> Human Communication	3	

### Area B: Institutional Options 5 credit hours

C-1	<b>ENGL 2000-level</b> Literature	3	
C-2	<b>ART/DANC/MUSI/TPS 1107</b>	3	
	Arts and Culture of the World		

### Area C: Humanities/Arts 6 credit hours

Choose one course from both groups.

D-1	<b>MATH 1107</b> Elementary Statistics	3	
D-2	<b>CHEM 1211/L, PHYS 1111/L, PHYS 2211/L, BIOL 1107/L, CHEM 1212/L, PHYS 1112/L, PHYS 2212/L, BIOL 1108/L, SCI 1101, GEOG 1112 or GEOG 1113</b>	8	

### Area D: Science, Math & Technology 11 credit hours

Must complete two 4-credit hour lab sciences. "L" denotes accompanying lab course.

*Chem 1211/L is a prerequisite of BIOL 1107/L.*

E-1	<b>POLS 1101</b> American Government	3	
E-2	<b>HIST 2111/2112</b> US History	3	
E-3	<b>HIST 1100/1111/1112</b> World History	3	
E-4	<b>ECON 1100/2100</b> Economics	3	

### Area E: Social Sciences 12 credit hours

Choose one course from each group for requirements E-2 to E-4.

## Area F Lower Division Major Requirements 18 credit hours

Prerequisites			
F-1	<b>CSE/CS 1301</b> Programming and Problem Solving I	No Prerequisite	4
F-2	<b>IT 1324</b> Programming and Problem Solving II	CSE 1301	4
F-3	<b>CSE 2300</b> Discrete Structures OR <b>MATH 2345</b> Discrete Math	CSE 1301/MATH 1113	3
F-4	<b>Technical Block courses from AAS</b>		
		-	3
		-	4

Students should begin CSE/CS 1301 within their first or second semester in the major. IT majors can take either CS 1301 (Java) or CSE 1301 (C# - gaming oriented). CS 1301 counts for any prerequisite that says CSE 1301.

Students can take either CSE/CS 1302 or IT 1324. CSE/CS 1302 can count for any prerequisite that says IT 1324.

Students may complete CSE 2300 concurrently with IT 3123. CSE 2300 has prerequisite of CS/CSE 1301. MATH 2345 has prerequisite of MATH 1113.

Students must have a C or better on all courses that are IT, CS, CSE, SWE, CGDD.

Notes:

## Upper Division Major Courses 26 credit hours

	Prerequisites		
<b>CSE 3801</b> Professional Practices and Ethics	IT 1324	2	
<b>CSE 3153</b> Database Systems	IT 1324	3	
<b>IT 3123</b> Hardware/Software Concepts	IT 1324 & CSE 2300	3	
<b>IT 3203</b> Intro to Web Development	IT 1324	3	
<b>IT 3223</b> Software Acquisition & Project Management	CSE 3153	3	
<b>IT 3423</b> Operating Systems Concepts & Administration	IT 3123	3	
<b>IT 3883</b> Advanced Applications Development	IT 1324	3	
<b>IT 4323</b> Data Communications & Networks	IT 3123	3	
<b>IT 4823</b> Information Security Administration	CSE 3153 & IT 3123 & CSE 2300	3	

Technical Block credit cannot be used to satisfy 3000 or 4000-level courses.

Students must have a C or better on all courses that are IT, CS, CSE, SWE, CGDD.

## Technical Block 30 credit hours

CIS/CIST courses from the student's AAS degree


## Directed Electives 6 credit hours

Choose **two** from the following list of courses

	Prerequisites		
<b>IT 3503</b> Foundations of Health Information Technology	IT 3123	3	
<b>IT 4123</b> Electronic Commerce	IT 3203 & CSE 3153	3	
<b>IT 4683</b> Management of IT & Human Computer Interaction	CSE 3153	3	
<b>IT 4723</b> IT Policy and Law	IT 3123 & IT 3223	3	
<b>IT 4203</b> Advanced Web Development	IT 3203	3	
<b>IT 4153</b> Advanced Database	CSE 3153	3	
<b>IT 4333</b> Network Configuration & Administration	IT 4323	3	
<b>IT 4833</b> Wireless Security	IT 4823	3	
<b>IT 4843</b> Ethical Hacking for Effective Defense	IT 4323	3	
<b>IT 4853</b> Computer Forensics	IT 4823	3	