

Bachelor of Applied Science in Information Technology

Catalog Year: 2016

Total Degree Credit hours: 121

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

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

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

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

Area B: Institutional Options 5 credit hours

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

Area C: Humanities/Arts 6 credit hours

Choose one course from both groups.

D-1	MATH 1107 Elementary Statistics	3	
D-2	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	8	

Area D: Science, Math & Technology 11 credit hours

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

Chem 1211/L is a corequisite of BIOL 1107/L.

E-1	POLS 1101 American Government	3	
E-2	HIST 2111/2112 US History	3	
E-3	HIST 1100/1111/1112 World History	3	
E-4	STS 1101 Science, Technology and Society	3	

Area E: Social Sciences 12 credit hours

Choose one course from groups E-2 to E-4.

Area F Lower Division Major Requirements 18 credit hours

Prerequisites			
F-1	CS 1301 Programming and Problem Solving I	No Prerequisite	4
F-2	IT 1324 Programming and Problem Solving II	CS/CSE 1301	4
F-3	CSE 2300 Discrete Structures OR MATH 2345 Discrete Math	CSE 1301 & MATH 1112/1113	3
		MATH 1112/1113	
F-4	Technical Block courses from AAS		
		-	3
		-	4

Students should begin CSE/CS 1301 within their first or second semester in the major. Students can either take CS 1301 (Java) or CSE 1301 (C#) to satisfy F-1 requirement.

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

CSE 2300 has CS/CSE 1301 as the prerequisite. MATH 2345 has MATH 1113 as the prerequisite.

Students must have a C or better on all courses that are in Area F.

For any course that has CSE 2300 listed as a prerequisite, you may use MATH 2345 instead.

Notes:

Technical Block 21 credit hours

CIS/CIST courses from the student's AAS degree

Students must have a C or better on all courses that are in Upper Division Major Courses and Directed Electives.

Upper Division Major Courses 29 credit hours

	Prerequisites				
CSE 3801 Professional Practices and Ethics	IT 1324	2		Coursework from student's AAS cannot fulfill required Upper Division Major Courses or Directed Electives. CSE 2300/MATH 2345 may be taken concurrently with IT 3123.	
CSE 3153 Database Systems	IT 1324	3			
IT 3123 Hardware/Software Concepts	IT 1324 & CSE 2300*	3			
IT 3203 Intro to Web Development	IT 1324	3			
IT 3223 Software Acquisition & Project Management	CS/CSE 1301	3			
IT 3423 Operating Systems Concepts & Administration	IT 3123	3			
IT 3883 Advanced Applications Development	IT 1324	3			
IT 4323 Data Communications & Networks	IT 3123	3			
IT 4823 Information Security Administration	CSE 3153 & IT 3123 & CSE 2300	3			
IT 4983 Capstone	Senior Standing	3			

Directed Electives 10 credit hours

Must take any combination of courses below that totals at least 10 credit hours

	Prerequisites		
IT 3503 Foundations of Health Information Technology	IT 3123	3	
IT 4123 Electronic Commerce	IT 3203 & CSE 3153	3	
IT 4683 Management of IT & HCI	CSE 3153	3	
IT 4723 IT Policy and Law	IT 3123 & IT 3223	3	
IT 4203 Advanced Web Dev.	IT 3203	3	
IT 4153 Advanced Database	CSE 3153	3	
IT 4333 Network Config & Admin	IT 4323	3	
IT 4833 Wireless Security	IT 4823	3	
IT 4843 Ethical Hacking for Effective Defense	IT 4323	3	
IT 4853 Computer Forensics	IT 4823	3	
SWE 4324 User Centered Design	IT 1324	4	

Students must have a C or better on all courses that are in Upper Division Major Courses and Directed Electives.