

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.

CSE 2300 may be completed concurrently with IT 3123.

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

Notes:

Technical Block 21 credit hours

CIS/CIST courses from the student's AAS degree

Upper Division Major Courses 29 credit hours

Prerequisites

CSE 3642 Professional Practices and Ethics	IT 1324	2	
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	CSE 3153	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	

Coursework from student's AAS cannot fulfill required Upper Division Major Courses or Directed Electives.

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

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 IT, CS, CSE, SWE, CGDD.