Bachelor of Science in Information Technology



Catalog Year: 2024-2025 Total Degree Credit Hours: 120

		Complete the following		Complete one course from the following:
I	2 Classes	course:	0	AMST 1102, ASIA 1102, BLCK 1102, COMM 1100, GWST 1102, LALS 1102,
Institutional Priority	5 Credit Hours	ECON 1000	AND	LDRS 2300, PAX 1102, ISD 2700, POLS 2401, RELS 1102
M	1 Class	Complete the following course: MATH 1113		
Mathematics & Quantitative Skills	3- 4 Credit Hours	Computing-related Science Majors: Students must take MATH 1113 or higher Computing-related Engineering Majors: Students must take MATH 1190 or higher		
P Political Science	2 Classes 6 Credit	Complete the following course: POLS 1101	AND	Complete one course from the following: HIST 2111, HIST 2112
and U.S. History	Hours		1	
A Arts, Humanities, and Ethics	2 Classes 6 Credit Hours	Select one course from the following: CHIN 1001 or CHIN 1002, ENGL 2110, ENGL 2120, ENGL 2130, ENGL 2140, FREN 1001 or FREN 1002, GRMN 1001 or GRMN 1002, HEBR 1001 or HEBR 1002, ITAL 1001 or ITAL 1002, JAPN 1001 or KOR 1002, LATN 1001 or LATN 1002, PHIL 2010, PORT 1001 or PORT 1002, RUSS 1001 or RUSS 1002, WLC 1002, WLC 2209	AND	Complete one course from the following: ART 1107, DANC 1107, MUSI 1107, TPS 1107
C Communication in Writing	2 Classes 6 Credit Hours	Complete the following course: ENGL 1101	AND	Complete the following course: ENGL 1102
T Technology, Mathematics, and Science	3 Classes 10-12 Credit Hours	Complete one course from the following: MATH 1190, MATH 2202 Computing-related Science Majors: Students must take MATH 1190 or higher Computing-related Engineering Majors: Students must take MATH 2202	AND	Science Majors and Engineering Majors: Select two course pairs from the following (8 Credit Hours) CHEM 1211 and CHEM 1211L CHEM 1212 and CHEM 1212L PHYS 1111 and PHYS 1111L PHYS 1112 and PHYS 1112L PHYS 2211 and PHYS 2211L PHYS 2212 and PHYS 2212L BIOL 1107 and BIOL 1107L BIOL 1108 and BIOL 1108L Please note: Students cannot take both PHYS 1111/L and PHYS 2211/L nor PHYS 1112/L and PHYS 2212/L.
S Social Sciences	2 Classes 6 Credit Hours	Complete one course from the following: HIST 1100, HIST 1111, HIST 1112	AND	Complete one course from the following: CRJU 1101, GEOG 1101, PSYC 1101, SOCI 1101, STS 1101, ANTH 1102, ECON 2106

Core Field of Study

Prerequisites

IT 1114 Programming Principles AND	Lecture & Lab must be	4	
IT 1114L Programming Principles lab	taken at the same time		
CSE 1321 Programming & Problem Solving I AND	Lecture & Lab must be	4	
CSE 1321L Programming & Problem Solving I Lab	taken at the same time		
TCOM 2010 Technical Writing	ENGL 1102	3	
STAT 2332 Probability and Data Analysis	MATH 1190 or MATH 1179	3	
MATH 2345 Discrete Mathematics or	MATH 1113 or 1190 or 1179	3	
CSE 2300 Discrete Structures for Computing	(MATH 1113 or 1190) & CSE		
	1321/L with 'B' or better		
+ 1 hour from Technology, Mathematics, and Sciences	See IMPACTS requirements	1	

Students should start in IT 1114 & IT 1114L then move on to CSE 1321 & CSE 1321L.

'C' or better grade required for all major courses

Free Electives	
	Select 5 credit hours of 1000-4000 level coursework from the University Catalog.

Major Core Requirements

Prerequisites

	Prerequisites		
CSE 3153 Database Systems	IT 1114/L or CSE 1322/L	3	
CSE 3801 Professional Practices and Ethics	IT 1114/L or CSE 1322/L	2	
IT 3123 Hardware & Software Concepts	IT 1114/L or CSE 1321/L	3	
IT 3003 Professional Development & Entrepreneurship	IT 3123*	3	
IT 3203 Intro to Web Development	IT 1114/L or CSE 1321/L	3	
IT 3223 Software Acquisition & Project Management	IT 1114/L or CSE 1321/L	3	
IT 3423 Operating Systems Concepts & Administration	IT 3123 or CS 3503	3	
IT 3883 Advanced Application Development	(IT 1114/L or CSE 1321/L) and	4	
Tr 3003 / (avancea / ppileation Bevelopment	CSE 3153		
IT 4323 Data Communications & Networks	IT 3123 or CS 3503	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 & Privacy	(CSE 2300 or MATH 2345) & IT	3	
11 4023 information security Administration & Frivacy	3123		
IT 4983 IT Capstone	IT 3423, IT 3223, IT 3203 & IT	3	
11 4303 II Capstone	4323*, IT 4823*		
+ 1 hour from Technology, Mathematics, and Sciences			

All major courses must have a minimum grade of 'C.'

* - can be done concurrently with course

Concentration (15 credit hours)

Choose **ONE** concentration. Four of the five courses must be completed from the chosen concentration. The fifth course may be from the same or any concentration, IT 4490 Special Topics, IT 4493 Research, or CSE 4983 Computing Internship.

Enterprise Systems	Prerequisites		
IT 3503 Foundations of Health	ENGL 1102	3	
IT			
IT 4153 Advanced Database	CSE 3153	3	
IT 4333 Network Configuration	IT 4323 or ECET	3	
& Administration	3400 or CS 4622		
IT 4673 Virtual IT Systems	(IT 3423 or CS	3	
	3502), CSE 3153		
	& IT 4323		
IT 4403 Advanced Web and	IT 3203	3	
Mobile Applications			

Data Analytics and Tech.	Prerequisites		
IT 3703 Introduction to Data	IT 3123 &	3	
Analytics and Technology	CSE 3153*		
IT 4713 Business Intelligence	IT 3703	3	
Systems			
IT 4733 Big Data System	IT 3703	3	
Administration			
IT 4773 Machine Learning for	IT 3703	3	
Enterprise Applications			
IT 4793 Applied Data Driven	IT 3703	3	
Solutions			

^{* -} can be done concurrently with course

Cyber Operations Security	Prerequisites

IT 4323 or ECET	3	
3400 or CS 4622		
IT 4323 or ECET	3	
3400 or CS 4622		
IT 4323 or ECET	3	
3400 or CS 4622		
IT 4323 or ECET	3	
3400 or CS 4622		
IT 4823 & IT	3	
4323		
IT 3203	3	
313131	3400 or CS 4622 T 4323 or ECET 3400 or CS 4622 T 4323 or ECET 3400 or CS 4622 T 4323 or ECET 3400 or CS 4622 T 4823 & IT 1323	3400 or CS 4622 T 4323 or ECET 3 3400 or CS 4622 T 4323 or ECET 3 3400 or CS 4622 T 4323 or ECET 3 3400 or CS 4622 T 4823 & IT 3 1323