

Bachelor of Science in Information Technology



Catalog Year: 2017

Total Degree Credit hours: 120

General Education Requirements (See DegreeWorks or catalog 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		
B-1	ECON 1000 Contemporary Economic Issues	2	
B-2	COM 1100 Human Communication	3	
C-1	ENGL 2000-level Literature	3	
C-2	ART/DANC/MUSI/TPS 1107 Arts and Culture of the World	3	
D-1	MATH 1190/1160 Calculus I /Elementary Applied Calculus	4	
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	
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	
KSU 1101 First Year Seminar		3	

Every box next to the credit hours must be checked off to complete the degree.

Area A: Essential Skills 9 credit hours

Must complete all three requirements in this area within first 30 credit hours.

Students must have C or better on all classes in this area.

If you take MATH 1111, you must take MATH 1112. Credit cannot be counted for MATH 1113 and (MATH 1111 or MATH 1112) in the degree.

Area B: Institutional Options 5 credit hours

Area C: Humanities/Arts 6 credit hours

Choose one course from both groups.

Area D: Science, Math & Technology 11 credit hours

Choose one Mathematics course. Must complete two 4-credit hour science courses. "L" denotes accompanying lab section.

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

One credit hour from Area D carried to Area F

Area E: Social Sciences 12 credit hours

Choose one course from each group for requirements E-2 and E-3.

Students who transfer in with 30+ credit hours do not need to complete a First Year Seminar course.

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 1301	4
F-3	CSE 2300 Discrete Structures OR MATH 2345 Discrete Math **	CS 1301 & MATH 1113	3
F-4	IT 1113 Programming Principles I	MATH 1112/1113	3
F-5	MATH 2332 Intro to Probability and Data Analysis OR STAT 1107 Intro to Statistics	MATH 1190	3
		MATH 1112	

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). CSE 1301 counts for any prerequisite that says CS 1301.

** Discrete Math has MATH 1113 or MATH 1112 as the prerequisite.

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.

+ 1 hour from Area D or free electives

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

Notes:

Upper Division Major Courses 41 credit hours

	Prerequisites		
CSE 3801 Professional Practices and Ethics	IT 1324	2	
CSE 3153 Database Systems	IT 1324	3	
IT 3123 Hardware/Software Concepts	IT 1324 & (CSE 2300* or MATH 2345*)	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	
TCOM 2010 Technical Writing	ENGL 1102	3	
IT 4123 Electronic Commerce	IT 3203 & CSE 3153	3	
IT 4323 Data Communications & Networks	IT 3123	3	
IT 4423 Unix/Linux	IT 3423	3	
IT 4683 Management of IT & HCI	CSE 3153	3	
IT 4723 IT Policy and Law	IT 3123 & IT 3223	3	
IT 4823 Information Security Administration	CSE 3153 & IT 3123 & (CSE 2300 or MATH 2345)	3	
IT 4983 IT Capstone	Senior Standing	3	

Students should take upper level courses in a sequence that enables them to take concentration courses alongside other upper division major courses - e.g. Pursuing the Information Security concentration students should take IT 4323 and IT 4823 sooner than IT 3203 even though they may take IT 3203 right after completing programming requirements.

*CSE 2300/MATH 2345 can be taken concurrently with IT 3123

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

Concentration 12 credit hours

Choose **one** concentration. **Four** courses total are required. Must complete **three** within the concentration. Final course may be from the same or any other concentration.

Enterprise Systems

	Prerequisites		
IT 4203 Advanced Web Dev.	IT 3203	3	
IT 4153 Advanced Database	CSE 3153	3	
IT 4333 Network Config & Admin	IT 4323	3	
IT 4673 Virtual IT Systems	CSE 3153 & IT 3423 & IT 4323	3	
IT 4713 Business Intelligence Sys.	CSE 3153	3	
IT 4490 Sp Tp in Enterprise Sys.	Varies	3	

Information Assurance & Security

	Prerequisites		
IT 4833 Wireless Security	IT 4823 or CS 3502	3	
IT 4843 Ethical Hack for Eff. Def.	IT 4323, ECET 3400 or CS 4622	3	
IT 4853 Computer Forensics	IT 4823 or CS 3502	3	
IT 4883 Infrastructure Defense	IT 4323	3	
IT 4490 Sp Topics in Info. Sec.	Varies	3	

Health Information Technology

	Prerequisites		
IT 3503 Foundations of HIT	ENGL 1102	3	
IT 4513 Elec. Health Record Sys. & App.	IT 3503	3	
IT 4523 Clinical Processes & Workflows	IT 3503 or concurrent	3	
IT 4533 Health Info Sec. & Priv.	IT 3503	3	
IT 4490 Special Topics in HIT	Varies	3	

Mobile and Web

	Prerequisites		
CSE 3203 Overview of Mobile Systems	IT 1324	3	
IT 4203 Advanced Web Development	IT 3203	3	
IT 4213 Mobile Web Development	CSE 3203 and IT 3203	3	
CGDD 4203 Mobile & Casual Game Dev.	CGDD 4003	3	
IT 4490 Sp Topics in Mobile and Web	Varies	3	

CSE 4983 CSE Internship course may potentially be used as your "out of concentration" 4th technical elective. Enrollment into this course and applicability to degree must be approved **before** permission is granted for registration.

7 Credit Hours of Free Electives Required

	3	
	4	