

# Bachelor of Science in Information Technology



Catalog Year: 2016

Total Degree Credit hours: 121

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

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A-1	<b>ENGL 1101</b> Composition I	3	
	<b>ENGL 1102</b> Composition II	3	
A-2	<b>MATH 1113</b> Pre-Calculus OR <b>MATH 1112</b> College Trigonometry	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.

B-1	<b>ECON 1000</b> Contemporary Economic Issues	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> Arts and Culture of the World	3	

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

Choose one course from both groups.

D-1	<b>MATH 1190/1160</b> Calculus I /Elementary Applied Calculus	4	
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

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 D-1 carried to Area F**

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>STS 1101</b> Science, Technology and Society	3	

### Area E: Social Sciences 12 credit hours

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

	<b>KSU 1101/1111/1121/1200</b> First Year Seminar	3	
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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	<b>CS 1301</b> Programming and Problem Solving I	No Prerequisite	4
F-2	<b>IT 1324</b> Programming and Problem Solving II	CS 1301	4
F-3	<b>CSE 2300</b> Discrete Structures OR <b>MATH 2345</b> Discrete Math **	CS 1301 & MATH 1113	3
F-4	<b>TCOM 2010</b> Technical Writing	ENGL 1102	3
F-5	<b>MATH 2332</b> Intro to Probability and Data Analysis OR <b>MATH 1107</b> 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-1**

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

Notes:

## Upper Division Major Courses 41 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	CS/CSE 1301	3	
<b>IT 3423</b> Operating Systems Concepts & Administration	IT 3123	3	
<b>IT 3883</b> Advanced Applications Development	IT 1324	3	
<b>IT 4123</b> Electronic Commerce	IT 3203 & CSE 3153	3	
<b>IT 4323</b> Data Communications & Networks	IT 3123	3	
<b>IT 4423</b> Unix/Linux	IT 3423	3	
<b>IT 4683</b> Management of IT & HCI	CSE 3153	3	
<b>IT 4723</b> IT Policy and Law	IT 3123 & IT 3223	3	
<b>IT 4823</b> Information Security Administration	CSE 3153 & IT 3123 & CSE 2300	3	
<b>IT 4983</b> 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.

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

### Information Assurance & Security

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

### Health Information Technology

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

### Mobile and Web

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

### 7 Credit Hours of Free Electives Required

	3	
	4	