

Bachelor of Science in Information Technology Graduation Requirements for 2006-2007

Revised 06/26/06

AREA A: Essential Skills

Course	Hrs	√
ENGL 1101 Composition I	3	
ENGL 1102 Composition II (*ENGL 1101)	3	
MATH 1113 Precalculus	4	
Total Area A	9 Required	
	+1 To Area F	

AREA B: Institutional Options

Course	Hrs	√
SPCH 2400 Public Speaking	2	
STS 2400 Science, Technology, & Society	2	
Total Area B	4	

AREA C: Humanities/Fine Arts

Take one from each of the following two groups:

Course	Hrs	√
Literature of the World (Group 1) ENGL 2110, ENGL 2120, ENGL 2130, ENGL 2141, or ENGL 2142 (*ENGL 1102)	3	
Art and Culture of the World (Group 2) ARTS 2001, ARTS 2002, ARTS 2003 (*ENGL 1102) FREN 1002, GRMN 1002, or SPAN 1002	3	
Total Area C	6	

AREA D: Science, Math, and Technology

Course	Hrs	√
MATH 2240 or MATH 2253 (*MATH 1113)	3	
Take any <u>two</u> courses from the following for a total of 8 hours:		
BIOL 2107K, BIOL 2108K, CHEM 1211K, CHEM 1212K, (PHYS 1111 or PHYS 2211K**), or (PHYS 1112K or PHYS 2212K**)		
List course → _____	4	
List course → _____	4	
Total Area D	11	

* prerequisite

** PHYS 111X and 221X are the same except for 221X is calc-based.

AREA E: Social Sciences

Take one from each of the following four groups:

Course	Hrs	√
American Context (Group 1): HIST 2111, HIST 2112, or POLS 1101	3	
World History (Group 2): HIST 1011, HIST 1012, or HIST 1013	3	
Behavioral Sciences (Group 3): ECON 1101 or PSYC 1101	3	
Cultures and Societies (Group 4): ES 1100, GEOG 1101, POLS 2401, or RELG 1200, ANTH 1102	3	
Total Area E	12	

AREA F

Course	Hrs	√
ACCT 2101 Accounting I	3	
MATH 2260 Prob & Stat or IET 2227 Industrial Stat	3	
CS 1301 Computer Science I (*MATH 1113 or concurrent)	4	
IT 1324 Advanced Programming Principles (*CS 1301)	4	
Math 2345 Discrete Math (*MATH 1113)	3	
1 hour from MATH 1113	1	
Total Area F	18	

INTRO TO THE DISCIPLINE

Course	Hrs	√
CS1002 Introduction to Computing Disciplines (required, but does not count towards graduation hours)	2	

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REQUIRED COURSES

Course	Hrs	√
SwE 2642 Professional Practices & Ethics (*IT 1324)	2	
CS 3153 Database Systems (*IT 1324 or CS 1302)	3	
SwE 4324 User Centered Design (*IT 1324)	4	
TCOM 2010 Technical Writing (*ENGL 1102)	3	
MGNT 3105 Management and Organizational Behavior	3	
Total Required Courses	15	
MAJOR COURSES		
Course	Hrs	
IT 3124 Hardware/Software Concepts (*IT 1324 or CS 1302)	4	
IT 3224 Software Development Life Cycle (*CS 3153)	4	
IT 3204 Intro to Web Development (*IT 1324 or CS 1302)	4	
IT 3423 Oper Sys. Concepts & Administration (*IT 3124)	3	
IT 3883 Programming Applications Development (*IT 1324 or CS 1302)	3	
IT 4323 Data Communications & Networks (*IT 3124)	3	
IT 4123 Electronic Commerce (*IT 1324 or CS 1302)	3	
IT 4823 Information Security Administration (*CS 3153 and IT 3124)	3	
Total Major Courses	27	

FREE ELECTIVES	Hrs	
Free elective	3	
Free elective	3	
Total Free Electives	6	

UPPER LEVEL TECHNICAL ELECTIVES (4 courses)

Choose one of the tracks below and complete 3 of their courses. The 4th elective can be from the same or different track.

Management Track:	Hrs	√
MGNT 4185 Technical Management	3	
MGNT 4151 Production & Op Mgmt	3	
SWE 4663 Soft. Project Mgmt or MGNT 4135	3	
IT 4723 IT Policy & Law or MGNT 3145	3	

Systems & Administration Track	Hrs	√
IT 4203 Adv Web Development	3	
IT 4153 Advanced Database	3	
IT 4333 Network Conf & Administration	3	
IT 3653 Client Server Sys Administration	3	

Advanced Software Dev Track:	Hrs	√
IT 4683 Mgmt Information Systems	3	
IT 4723 IT Policy & Law	3	
SWE 4663 Software Project Management	3	
SWE 4724 Software Engineering Project	4	

Information Assurance & Security Track:	Hrs	√
IT 4833 Wireless Security	3	
IT 4843 Ethical Hacking	3	
IT 4853 Computer Forensics	3	
IT 4903 Special Topics in Info Security	3	

Total Upper Level Tech Elective 12

TOTAL HOURS FOR GRADUATION: 120

All IT, CS, and SWE designator courses must have a grade of 'C' or better.