

**BACHELOR OF ARTS / SCIENCE
COMPUTER SCIENCE
INFORMATION SYSTEMS EMPHASIS
2011 – 2012**

BA
BS

GENERAL EDUCATION CORE	REQ	COMP	NEED
SKILLS COMPONENT (13 cr.)			
ENGL 101 and 102 OR ENGL 109	6		
COMM 204	3		
MATH 170	4		
HUMANITIES: 1 Literature & 1 Arts (6 cr.)			
ENGL 150, ENGL 258, ENGL 257, HUM 301	3		
ART 100, HUM 101, 150, MUS 101, THEA 101	3		
NATURAL SCIENCES: NS 150 & 1 Lab. Sci. (7 cr.)			
NS 150	3		
BIOL 102, 120, 175, 252	4		
CHEM 102, 105, 111			
FSCI 101			
GEOL 100, GEOL 120			
NS 100, 171 and 172			
PHYS 111, 205, 211			
SOCIAL SCIENCE: 3 courses from 2 subjects (9 cr.)			
HRPT 185 or SS 185	3		
ANTH 102, 120, 170	6		
ECON 101, 102, 201, 202			
GEOG 102			
HIST 101, 102, 111, 112, 115			
HRPT 184			
POLS 101, 285			
PSYC 101, 205			
SS 150, 184			
SOC 101, 102			
INTEGRATIVE COMPONENT: 1 course (3 cr.)			
NS, HUM, SS 350	3		
ID, HUM, SS 351			
General Education Core Sub-Total	38		

BACHELOR OF ARTS
Take and additional 16 credits of language if selecting a BA degree.

NOTES
1) Adding the following two courses to this program would complete all requirements for a Minor in Business Administration: BUS 321 Principles of Marketing and BUS 365 Legal Env. of Bus.
2) WBL: Work-based Learning.

128 Total Credit (minus remedial):
36 Upper Division Credit:
32 Resident Credit (LCSC):
Exit Interview Required

MAJOR REQUIREMENTS	REQ	COMP	NEED
COMPUTER SCIENCE Lower Division			
CS 101 Computer Science Seminar	1		
CS 110 Introduction to Interactive Design	4		
CS 111 Foundations of Programming	4		
CITPT 111 HTML and CSS	3		
CS 213 Algorithms and Data Structures	4		
CS 225 Structured Query Language (SQL)	2		
CS 227 Linux and System Software	2		
CS 250 Computer Org. and Architecture	4		
ACCOUNTING, BUSINESS, AND ECONOMICS Lower Division			
ECON 202 Principles/Theory of Microeconomics	core		
AC 231 Principles of Accounting I	3		
AC 232 Principles of Accounting II	3		
BUS 221 Intro. to Computers and Info. Systems	3		
MATHEMATICS and STATISTICS Lower Division			
MATH 170 Calculus I	core		
MATH 186 Discrete Mathematics	3		
BUS 271 Business Statistics OR	3		
ECON 300 Statistical Methods (PSYC/SS 300) OR			
MATH 254 Quantitative Methods			
COMMUNICATION and WRITING Lower Division			
ENGL 203 Technical Writing OR	3		
BUS 220 Business Communications OR			
COMM 330 Professional Communication			
COMPUTER SCIENCE Upper Division			
CS 312 Object-Oriented Design	4		
CS 360 Software Engineering	4		
CS 480 Capstone Design Project	4		
CS 435 Computer Networks	4		
CS 445 Databases and Knowledge Mgmt.	4		
CS 430 Operating Systems	4		
CS 475 Computer Systems Security	4		
BUSINESS AND ECONOMICS Upper Division			
BUS 311 Foundations of Management Theory	3		
BUS 355 Information Systems for Managers	3		
BUS 370 Production and Operations Mgmt.	3		
SCIENCE Upper Division			
NS 380 Senior Seminar	1		
WORK and GRADUATE SCHOOL PREPARATION			
CS 194, 294, 394, 494 Internship (WBL) OR	1		
CS 195, 295, 395, 495 Practicum (WBL) OR			
CS 196, 296, 396, 496 Coop Ed. (WBL)			
CS 401 Future Professionals Seminar	1		
PROGRAM ELECTIVES Upper Division			
CS 400 Computer Science Elective	4		
CS 400 Computer Science Elective	4		
SUMMARY			
GENERAL EDUCATION CORE	38		
COMPUTER SCIENCE	52		
ACCOUNTING, BUSINESS, AND ECONOMICS	18		
MATHEMATICS and STATISTICS	6		
COMMUNICATION and WRITING	3		
LABORATORY SCIENCE & SCIENCE	1		
WORK PRACTICE AND PREPARATION	2		
PROGRAM ELECTIVES	8		
BACHELOR OF SCIENCE TOTAL	128		