

BACHELOR OF SCIENCE in APPLIED COMPUTER SCIENCE AND INFORMATION SYSTEMS

Declared Fall 2010

(revised August 2011)

GENERAL EDUCATION REQUIREMENTS (48)

Hrs.	Course	Taken	Grade
ART/MUSIC/THEATRE/DANCE (6)			
3	ART217	_____	_____
	<i>Prerequisite: ART110, 112 or 212 or Inst. Permission</i>		
3	_____	_____	_____
			<i>MUSI101 is WE</i>
ECONOMICS or POLITICAL SCIENCE (3)			
3	_____	_____	_____
ENGLISH COMPOSITION (3)			
3	_____	_____	_____
			<i>ENGL100 is IL</i>
LITERATURE (3)			
3	_____	_____	_____
NATURAL SCIENCES (6)			
3	_____	_____	_____
3	_____	_____	_____
PHILOSOPHY (3)			
3	_____	_____	_____
PSYCHOLOGY (3)			
3	PSYC100	_____	_____
SOCIOLOGY/ANTHRO/GEOGRAPHY (3)			
3	_____	_____	_____
	<i>SOCI101, ANTH101 & 102, SOCW110 are MC</i>		
SPEECH (3)			
3	_____	_____	_____
	<i>COMM102 is IL, COMM104 is WE</i>		
WELLNESS (3)			
3	_____	_____	_____
WORLD HISTORY (3)			
3	_____	_____	_____
			<i>HIST101 & 102 are MC</i>
MATH (3)			
3	MATH107	_____	_____
	<i>Prerequisite: MATH100 or score of 9+ in Cat. 1 & 2</i>		
GENERAL EDUCATION ELECTIVES (6) *			
3	_____	_____	_____
3	_____	_____	_____

* MATH COURSES MAY BE REQUIRED AS ELECTIVES

IF math placement score is BELOW 9 in:

Cat. 1, MATH 009 is required as a 0 credit course

Cat. 2, MATH100 is required as a gen ed elective

MAJOR REQUIREMENTS (72)

A GPA of 2.0 or higher is required for graduation, both overall and in the major.

MAJOR CORE (39)

RECOMMENDED COMPLETION BEFORE JUNIOR YEAR

		Hrs.	When	Taken	Grade
COMP119	Freshman Seminar	3	F	_____	_____
	<i>Transfer Students may substitute a major elective</i>				
COMP150	Introduction to Computers	3	F&S	_____	_____
COMP160	Programming I	3	F&S	_____	_____
	<i>Prerequisite: MATH112</i>				
COMP200	Fundamentals of Networking	3	S	_____	_____
	<i>Prerequisite: COMP150</i>				
COMP202	Introduction to Systems Admin	3	F	_____	_____
	<i>Corequisite: COMP160</i>				
COMP205	Web-Based Application Dev.	3	S	_____	_____
	<i>Prerequisite: COMP160</i>				
COMP220	Contemporary Issues in Computing	3	F	_____	_____
	<i>Prerequisite: COMP150 (IL & WE)</i>				
COMP255	Database Design	3	F	_____	_____
	<i>Prerequisite: COMP160 or COMP250</i>				
ART308	On-line Interactive Design	3	S	_____	_____
	<i>Prerequisite: ART217 or ART110</i>				
MATH113	Precalculus	3	F&S	_____	_____
	<i>Prerequisite: MATH112 or score of 9+ in Cat. 1, 2 & 3</i>				
COMP230	Discrete Structures & Formal Lang	3	S	_____	_____
	<i>Prerequisite: COMP160 & MATH107</i>				

RECOMMENDED COMPLETION DURING JUNIOR OR SENIOR YEARS

		Hrs.	When	Taken	Grade
ENGL345	Business Writing	3	F&S	_____	_____
	<i>Prerequisite of 60 credits (WE & IL)</i>				
COMP475	Senior Capstone	3	S	_____	_____

OVERLAY REQUIREMENTS

3 courses: WE (writing emphasis) _____

2 courses: IL (information literacy) _____

2 courses: MC (multicultural) _____

2 Units (28 hours): EE (external experience) _____

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Mobile and Game Application Development Track		Hrs	When	Taken	Grade
COMP225	Mobile Device Programming (<i>Prerequisite: COMP160</i>)	3	S	_____	_____
COMP240	Game Programming (<i>Prerequisite: COMP160</i>)	3	F	_____	_____
COMP300	Data Structures and Algorithms (<i>Prerequisite: COMP240</i>)	3	S	_____	_____
COMP302	C/C++ for Systems Programming (<i>Prerequisite: COMP240</i>)	3	S	_____	_____
COMP405	Software Engineering (<i>Prerequisite: COMP300</i>)	3	F	_____	_____
COMP410	Machine Learning & Robotics (<i>Prerequisite: COMP300</i>)	3	S	_____	_____
COMP430	Computer Graphics (<i>Prerequisite: COMP302</i>)	3	F	_____	_____
MATH141	Calculus I (<i>Prerequisite: MATH113/placement</i>)	3	F&S	_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Database and Network Administration Track		Hrs	When	Taken	Grade
COMP260	Information Technology Project Management (<i>Prerequisite: MANG101 & ACCT110 & COMP250</i>)	3	S	_____	_____
COMP304	Data and Computer Communications (<i>Prerequisite: COMP200</i>)	3	S	_____	_____
COMP305	Database Application Development (<i>Prerequisite: COMP255</i>)	3	F	_____	_____
COMP322	Database Systems Administration (<i>Prerequisite: COMP202 & COMP255</i>)	3	S	_____	_____
COMP325	Advanced SQL (<i>Prerequisite: COMP255</i>)	3	F	_____	_____
COMP407	Network Systems Administration (<i>Prerequisite: COMP200</i>)	3	S	_____	_____
COMP412	Network Security (<i>Prerequisite: COMP200</i>)	3	F	_____	_____
MATH180	Math for Management (<i>Prerequisite: MATH107 & MATH112 /placement</i>)	3	F&S	_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Interdisciplinary Computing Track		Hrs	When	Taken	Grade
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____
_____	Major Elective	3		_____	_____

Note: The Interdisciplinary Computing track requires the student, with guidance from the advisor, to develop a detailed study plan prior to declaring this track. This plan must be approved by the Departmental Interdisciplinary Committee and two consulting faculty members from a second discipline. It is suggested that courses in the track consist of at least 4 COMP classes and an additional MATH or COMP class.

Major Elective Requirements

Major electives can include courses in other tracks as well as COMP369 (Internship), COMP499 (Independent Study), and any 200, 300 or 400-level COMP course not in the core .

The following courses in other degree programs can also count towards the major elective requirement: MANG101, MRKT305, BIOL106, BIOL107, CHEM120, CHEM121, PHYS170, PHYS171, PHYS290, MATH142, MATH205, MATH211, MATH243, MATH244 or any 300 or 400 level MATH course aside from 316, 359, 415, 416, 493, 494.

Classes that satisfy a general education requirement cannot be used as a major elective.