

**BACHELOR OF SCIENCE DEGREE PROGRAM (2010-2011 CATALOG)
COMPUTER SCIENCE (7071)**

NAME		STUDENT NO.:			
ADDRESS		TELEPHONE NO.:			
ADVISOR		E-MAIL			
COMMENTS					
COURSE #	COURSE DESCRIPTIONS	CR.	YEAR	GRADE	
FRESHMAN YEAR – FALL SEMESTER					
ASC 1000	University Experience	1			
COM 1101	Composition and Rhetoric (Prerequisite: COM 0100 or a passing grade on the placement test or prerequisite course)	3			
CSE 1001	Fundamentals of Software Development 1 (Requirements: Passing score on Calculus Placement Test or prerequisite course) [MUST PASS WITH “C” OR BETTER]	4			
CSE 1101	Computing Disciplines and Careers 1	1			
CSE 1400	Applied Discrete Mathematics (Requirements: Passing score on the Calculus Readiness Test, or prerequisite course) Prerequisite: MTH 1000)	3			
ECE 1551	Digital Logic	4			
	TOTAL	16			
FRESHMAN YEAR – SPRING SEMESTER					
COM 1102	Writing about Literature (Prerequisite: COM 1101)	3			
CSE 1002	Fundamentals of Software Development 2 (Prerequisite: CSE 1001 and MUST PASS WITH A “C” OR BETTER)	4			
MTH 1001	Calculus 1 (Prerequisites: MTH 1000 or High school algebra, trigonometry and a passing score on the placement test) (Graphics Calculator required)	4			
HUM 2510	Logic (Prerequisite: COM 1101)	3			
	Restricted Elective (Science)	3			
	TOTAL	17			
SOPHOMORE YEAR – FALL SEMESTER					
COM 2012	Research Sources and Systems (Prerequisite: COM 1102)	1			
COM 2223	Scientific and Technical Communications (Prerequisite: COM 1102)	3			
CSE 2010	Algorithms and Data Structures (Prerequisite: CSE 1002, CSE 1400 or MTH 2051 and MUST PASS WITH A “C” OR BETTER)	4			
MTH 1002	Calculus 2 (Prerequisite: MTH 1001)	4			
PHY 1001	Physics I (Prerequisite: MTH 1001; co-requisite: MTH 1002)	4			
PHY 2091	Physics Lab 1 (Co-requisite: PHY 1001)	1			
	TOTAL	17			
SOPHOMORE YEAR – SPRING SEMESTER					
CSE 2050	Programming in a Second Language (Prerequisite: CSE 1002, or permission of the instructor)	3			
CSE 2400	Applied Statistics (Prerequisite: MTH 1002)	3			
CSE 2410	Introduction to Software Engineering (Prerequisites: CSE 2010)	3			
HUM 2051	Civilization 1: Ancient Through Medieval (Prerequisite: COM 1102)	3			
PHY 2002	Physics 2 (Prerequisite: PHY 1001)	4			
PHY 2092	Physics Lab 2 (Prerequisite: PHY 2091; co-requisite: PHY 2002)	1			
	TOTAL	17			
JUNIOR YEAR – FALL SEMESTER					
CSE 3030	Legal, Ethical & Social Issues in Computing (Prerequisites: COM 2012, COM 2223 or COM 2224 and at least one of CSE 1002, CSE 1502, CSE 1503, ECE 2551)	3			
CSE 3101	Machine and Assembly Language (Prerequisite: CSE 1002)	3			
CSE 4250	Programming Language Concepts (Prerequisite: CSE 2010)	3			
HUM 2052	Civilization 2: Renaissance Through Modern (Prerequisite: COM 1102)	3			

	Restricted Elective (Mathematics)	3		
	TOTAL	15		
JUNIOR YEAR – SPRING SEMESTER				
CSE 4001	Operating Systems Concepts (Prerequisites: CSE 2050, CSE 3101)	3		
CSE 4083	Formal Languages and Automata Theory (Prerequisites: CSE 2010)	3		
ECE 4551	Computer Architecture (Prerequisite: ECE 3551 or CSE 3101)	3		
	Liberal Arts Elective	3		
	Restricted Elective (Science)	3		
	Free Elective	3		
	TOTAL	18		
SENIOR YEAR – FALL SEMESTER				
CSE 4081	Introduction to Analysis of Algorithms (Prerequisites: CSE 2010)	3		
CSE 4101	Computer Science Projects 1 (Prerequisite: Senior standing in Computer Science option)	3		
	Restricted Elective (Computer Science)	3		
	Social Science Elective	3		
	Technical Elective or CWE 2001 Cooperative Education 2	3		
	TOTAL	15		
SENIOR YEAR – SPRING SEMESTER				
CSE 4102	Computer Science Projects 2 (Prerequisite: Senior standing in Computer Science)	3		
	Humanities Elective	3		
	Restricted Elective (Computer Science)	3		
	Restricted Elective (Computer Science)	3		
	Technical Elective	3		
	TOTAL	15		
	TOTAL CREDITS REQUIRED	130		
TRANSFER CREDITS AND OTHER COURSES				
Advisor	Department Head			
Date	Date			