

**BACHELOR OF SCIENCE DEGREE PROGRAM (2012-2013 CATALOG)  
COMPUTER SCIENCE (7071)**

NAME		STUDENT NO.:	
ADDRESS		TELEPHONE NO.:	
<b>ADVISOR</b>		E-MAIL	
COMMENTS			
<b>COURSE #</b>	<b>COURSE DESCRIPTIONS</b>	<b>CR.</b>	<b>YEAR</b>
<b>GRADE</b>			
<b>FRESHMAN YEAR – FALL SEMESTER</b>			
ASC 1000	University Experience	1	
COM 1101	Composition and Rhetoric (Requirements: Passing grade on placement exam or prerequisite course). Prerequisite: COM 0100 or COM 0110.	3	
CSE 1001	Fundamentals of Software Development 1 (Requirements: Passing score on Calculus Placement Test or prerequisite course). (CL) Prerequisite: MTH 1000 [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	
	Social Science Elective	3	
	<b>TOTAL</b>	<b>15</b>	
<b>FRESHMAN YEAR – SPRING SEMESTER</b>			
COM 1102	Writing about Literature (Prerequisite: COM 1101)	3	
CSE 1002	Fundamentals of Software Development 2 (CL) (Prerequisite: CSE 1001) (MUST PASS WITH A “C” OR BETTER)	4	
CSE 2120	Computer Organization (Prerequisite: CSE 1001). [MUST PASS WITH A “C” OR BETTER]	3	
MTH 1001	Calculus 1 (Requirements: High school algebra and trigonometry, and a passing score on the placement test, or prerequisite course). Prerequisites: MTH 1000.	4	
	Restricted Elective (Science)	3	
	<b>TOTAL</b>	<b>17</b>	
<b>SOPHOMORE YEAR – FALL SEMESTER</b>			
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. [MUST PASS WITH A “C” OR BETTER]	4	
MTH 1002	Calculus 2 (Prerequisite: MTH 1001)	4	
BIO 1010	<b>CHOOSE ONE sequence Biology, Chemistry, or Physics</b> Biological Discovery 1 (Requirement: High School biology and chemistry.)	4	
CHM 1101	General Chemistry 1		
PHY 1001	Physics 1 (Prerequisite: MTH 1001, MTH 1002. Co-requisite: MTH 1002) and PHY 2091 (Co-requisite: PHY 1001 or PHY 1999) [One credit maybe applied toward Restricted Science Elective]		
	<b>TOTAL</b>	<b>16</b>	
<b>SOPHOMORE YEAR – SPRING SEMESTER</b>			
CSE 2050	Programming in a Second Language (Requirement: Instructor approval or prerequisite course). Prerequisite: CSE 1502 or CSE 2120.	3	
CSE 2410	Introduction to Software Engineering (Prerequisites: CSE 2010 or ECE 2552)	3	
HUM 2051	Civilization I: Ancient Through Medieval (Prerequisite: COM 1102)	3	
HUM 2510	Logic (Prerequisite: COM 1101)	3	
BIO 1020	<b>COMPLETE sequence Biology, Chemistry, or Physics</b> Biological Discovery 2 (Requirement: High School biology and chemistry)	4	
CHM 1102	General Chemistry 2 (Prerequisite: CHM 1101)		
PHY 2002	Physics 2 (Prerequisite: PHY 1001) and PHY 2092 (Corequisite: PHY 2002) [One credit maybe applied toward Restricted Science Elective]		

		<b>TOTAL</b>	<b>16</b>		
<b>JUNIOR YEAR – FALL SEMESTER</b>					
CSE 2400	Applied Statistics (Prerequisite: MTH 1002)		3		
CSE 3030	Legal, Ethical & Social Issues in Computing (Prerequisites: COM2012, COM 2223 or COM 2224 , CSE 1002 or CSE 1502 or CSE 1503 or EECE 2551)		3		
CSE 3120	Computer Architecture (Prerequisite: CSE 2050, CSE 2120)		3		
CSE 4250	Programming Language Concepts (Prerequisite: CSE 2010 or ECE 2552)		3		
	Humanities Core Course (Prerequisite: COM 1102)		3		
		<b>TOTAL</b>	<b>15</b>		
<b>JUNIOR YEAR – SPRING SEMESTER</b>					
CSE 4001	Operating Systems Concepts (Prerequisites: CSE 2010, CSE 2050 or ECE 2552, ECE 3551)		3		
CSE 4083	Formal Languages and Automata Theory (Prerequisites: CSE 2010 or ECE 2552. ECE 3541)		3		
	Free Elective		3		
	Liberal Arts Elective		3		
	Restricted Elective (Mathematics)		3		
	Restricted Elective (Science)		3		
		<b>TOTAL</b>	<b>18</b>		
<b>SENIOR YEAR – FALL SEMESTER</b>					
CSE 4081	Introduction to Analysis of Algorithms (Prerequisites: CSE 2010 or ECE 2552. ECE 3541))		3		
CSE 4101	Computer Science Projects 1 (Prerequisite: CSE 2010 and Senior standing in Computer Science option)		3		
	Restricted Elective (Computer Science)		3		
	Restricted Elective (Mathematics or Science)		3		
	Technical Elective or Business (3XXX) Elective		3		
		<b>TOTAL</b>	<b>15</b>		
<b>SENIOR YEAR – SPRING SEMESTER</b>					
CSE 4102	Computer Science Projects 2 (Prerequisite: CSE 4101and Senior standing in Computer Science)		3		
	Humanities Elective		3		
	Restricted Elective (Computer Science)		3		
	Restricted Elective (Computer Science)		3		
	Technical Elective or Business (3XXX) Elective		3		
		<b>TOTAL</b>	<b>15</b>		
		<b>TOTAL CREDITS REQUIRED</b>	<b>127</b>		
<b>TRANSFER CREDITS AND OTHER COURSES</b>					
Advisor	Department Head				
Date	Date				