BACHELOR OF SCIENCE DEGREE PROGRAM (2014-2015 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 (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		
	TOTAL	15		
FRESHMAN YEAR – SPRING SEMESTER				
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		
	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. [MUST PASS WITH A "C" OR BETTER]	4		
MTH 1002	Calculus 2 (Prerequisite: MTH 1001)	4		
BIO 1010 CHM 1101 PHY 1001	**CHOOSE ONE sequence Biology, Chemistry, or Physics** Biological Discovery 1 (Requirement: High School biology and chemistry.) General Chemistry 1 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]**	4		
	TOTAL	16		
SOPHOMORE YEAR – SPRING SEMESTER				
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 1: Ancient Through Medieval (Prerequisite: COM 1102)	3		
HUM 2510	Logic (Prerequisite: COM 1101)	3		
BIO 1020 CHM 1102 PHY 2002	**COMPLETE sequence Biology, Chemistry, or Physics** Biological Discovery 2 (Requirement: High School biology and chemistry) General Chemistry 2 (Prerequisite: CHM 1101) Physics 2 (Prerequisite: PHY 1001) and PHY 2092 (Corequisite: PHY 2002) **[One credit maybe applied toward Restricted Science Elective]**	4		
	TOTAL	16		

JUNIOR YEAR – FALL SEMESTER				
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		
	TOTAL	15		
JUNIOR YEAR – SPRING SEMESTER				
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		
	TOTAL	18		
SENIOR YEAR – FALL SEMESTER				
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		
	TOTAL	15		
SENIOR YEAR – SPRING SEMESTER				
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		
	TOTAL	15		
	TOTAL CREDITS REQUIRED	127		
	TRANSFER CREDITS AND OTHER COURSES			

Advisor	Department Head
Date	Date