

**COMPUTER SCIENCE DEGREE PROGRAM (2012 Catalog Total 121 hours)**

Student Name: \_\_\_\_\_ UIN: \_\_\_\_\_ Advisor: \_\_\_\_\_ THEA: \_\_\_\_\_ Entry Date \_\_\_\_\_

FRESHMAN YEAR															
First Semester				Sem				Second Semester				Sem			
		Hr	Gr	Yr	Tr		Gr	Yr	Tr		Gr	Yr	Tr		
MATH 1124	Calculus I ( <i>Pre req-Math 1123 or Math 1115, CoReq: GNEG 1121</i> )	4				ENGL 1123				Freshman Composition I ( <i>Univ. Comm. Core</i> )	3				
GNEG 1121	Engineering Appln. Lab II for Math ( <i>CoReq of Math 1124</i> )	1				MATH 2024				Calculus with Analytic Geometry II ( <i>Pre req-Math 1124, Co-Req. GNEG 2021</i> )	4				
	Science Course*	3				GNEG 2021				Engineering Appln. Lab III for Math ( <i>CoReq Math 2024</i> )	1				
	Science Course Lab*	1				COMM 1003				Fundamentals of Speech Comm. ( <i>Univ. Comm. Core</i> )	3				
COMP 1011	Intro to Engr. & CS Tech.	1				COMP 1224				Computer Science and Laboratory II ( <i>Prerequisites: COMP 1214. Co-requisite: MATH 1124</i> )	4				
COMP 1021	Intro to CS Lab.	1													
COMP 1214	Computer Science and Laboratory I ( <i>Pre-requisite: MATH 1123 or MATH 1115</i> )	4													
Total		15				Total					15				

SOPHOMORE YEAR															
First Semester				Sem				Second Semester				Sem			
		Hr	Gr	Yr	Tr		Gr	Yr	Tr		Gr	Yr	Tr		
COMP 2013	Data Structures ( <i>Pre req-COMP 1224</i> )	3				COMP 2033				Assembly Language ( <i>Pre req- COMP 1224</i> )	3				
HIST 1313	U.S. to 1876 ( <i>Soc. &amp; Beh. Sci.- Core</i> )	3				COMP				Elective	3				
COMP 2103	Discrete Structures ( <i>Pre req-COMP 1224</i> )	3				COMP				Elective	3				
ENGL 1143	Technical Writing ( <i>Univ. Comm. Core</i> )	3				POSC 1113				American Government I ( <i>Soc. &amp; Beh. Sci - Core</i> )	3				
	Science Course*	3								Science Course*	3				
	Science Course Lab*	1								Science Course Lab*	1				
Total		16				Total					16				

JUNIOR YEAR															
First Semester				Sem				Second Semester				Sem			
		Hr	Gr	Yr	Tr		Gr	Yr	Tr		Gr	Yr	Tr		
POSC 1123	American Government II ( <i>Soc. &amp; Beh. Sci - Core</i> )	3				COMP 3053				Analysis of Algorithms ( <i>Pre req- COMP 2013 &amp; COMP 2103</i> )	3				
MATH 3073	Linear Algebra ( <i>Pre req- MATH 2024</i> )	3				COMP 3063				Operating Systems ( <i>Pre req- (COMP 2013 &amp; COMP 3043) or ELEG 4393</i> )	3				
COMP 3033	Digital Logic Circuit ( <i>Pre req - COMP 2033</i> )	3				COMP 3223				Software Engineering ( <i>Pre req- COMP 2013</i> )	3				
COMP 3043	Computer Organization ( <i>Pre req- COMP 2033</i> )	3				COMP				Upper-level CS Elective	3				
MATH 3023	Probability and Statistics ( <i>Math Core</i> )	3								Humanities and Arts ( <i>H &amp; V Core</i> ) <see reverse side>	3				
Total		15				Total					15				

SENIOR YEAR															
First Semester				Sem				Second Semester				Sem			
		Hr	Gr	Yr	Tr		Gr	Yr	Tr		Gr	Yr	Tr		
COMP 4001	Ethics and Soc. Issues in Computing ( <i>Pre req - Senior Standing. Co- Req 4072</i> )	1				COMP 4082				Senior Design Project II ( <i>Pre req - COMP 4072</i> )	2				
**COMP 4072	Senior Design Project I ( <i>Pre req - COMP 3223, COMP 3063, ENGL 1143. Co req COMP 4001</i> )	2				COMP 4113				Programming Languages Design ( <i>Pre req - COMP 2013</i> )	3				
COMP 4123	Computer Networks ( <i>Pre req- COMP 3063</i> )	3				COMP				Upper-level Computer Science	3				
COMP 4133	Formal Languages Automata ( <i>Pre req COMP 2103</i> )	3				HIST 1323				The U.S.-1876 to Present ( <i>Soc. &amp; Beh. Sci - Core</i> )	3				
COMP 4953	Database Management ( <i>Pre req- COMP 2013</i> )	3								Visual and Performing Arts ( <i>H &amp; V Core</i> ) <see reverse side>	3				
	<i>Social and Behavioral Science</i> <see reverse side>	3													
Total		15				Total					14				

**\* Allowed Science Sequences:**

Science Sequence 1: CHEM 1033, CHEM 1011, CHEM 1043, CHEM 1021, PHYS 2513, PHYS 2511

Science Sequence 2: CHEM 1033, CHEM 1011, PHYS 2513, PHYS 2511, PHYS 2523, PHYS 2521

Science Sequence 3: BIOL 1113, BIOL 1111, PHYS 2513, PHYS 2511, PHYS 2523, PHYS 2521

\*\* Change COMP 4072 pre-requisites. Rename COMP 3003 and 3143 to COMP 2003 and 2143 to reflect as lower level electives. Add a new elective COMP 4963 (Intro. To Service Computing)