

**COMPUTER SCIENCE DEGREE PROGRAM (2011 Catalog Total 121 hours) CHECK LIST**

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

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

SOPHOMORE YEAR																	
First Semester				Sem				Second Semester				Sem					
		Hr	Gr	Yr	Tr			Hr	Gr	Yr	Tr			Hr	Gr	Yr	Tr
COMP 2013	Data Structures (Pre req-COMP 1223 and 1221)	3				COMP 2033	Assembly Language (Pre req-COMP 1223 and 1221)	3									
HIST 1313	U.S. to 1876 (Soc. & Beh. Sci.- Core)	3				COMP	Elective	3									
**COMP 1214	Elective	3				COMP 2103	Discrete Structures (Pre COMP 1223, 1211 & MATH 2053)	3									
ENGL 1143	Technical Writing (Univ. Comm. Core)	3				POSC 1113	American Government I (Soc. & Beh. Sci - Core)	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			Hr	Gr	Yr	Tr			Hr	Gr	Yr	Tr
POSC 1123	American Government II (Soc. & Beh. Sci - Core)	3				COMP 3053	Analysis of Algorithms (Pre req- COMP 2013 & COMP 2103)	3									
MATH 3073	Linear Algebra (Pre req- MATH 2024)	3				COMP 3063	Operating Systems (Pre req- COMP 2013 & (COMP 3043 or ELEG 4393))	3									
COMP 3033	Digital Logic Circuit (Pre req - COMP 2033)	3				COMP 3223	Software Engineering (Pre req- COMP 2013)	3									
COMP 3043	Computer Organization (Pre req- COMP 2033)	3				COMP	Upper-level CS Elective	3									
MATH 3023	Probability and Statistics (Math Core)	3					Humanities and Arts (H & V Core) <see reverse side>	3									
Total		15				Total		15									

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

\*\* Replace MATH 2053 with COMP ELECTIVE. Combine COMP 1213 and COMP 1211 to COMP 1214. Combine COMP 1223 and COMP 1221 to COMP 1224.