

# COMPUTER SCIENCE DEGREE PROGRAM (2008 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
MATH 1124	Calculus I (Pre req-Math 1112,1123, 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				SPCH 1003		Fundamentals of Speech Comm. (Univ. Comm. Core)	3		
COMP 1011	Intro to Engr. & CS Tech.	1				COMP 1223		Computer Science II (Pre-Comp 1213,Comp 1211 Co Req Comp 1221 & Math1124	3		
COMP 1021	Intro to CS Lab.	1				COMP 1221		Computer Science Laboratory II (Pre req Comp 1213, Comp1211Co-req Comp 1223 & Math 1124)	1		
COMP 1213	Computer Science I (Pre req-COMP1013 or equivalent & MATH 1113 & MATH 1123)or MATH1115 Co Req COMP 1211	3									
COMP 1211	Computer Science Laboratory I (Pre req COMP 1013 or equivalent) and (MATH 1113 & MATH 1123) or MATH 1115) CoReq COMP1213	1									
<b>Total</b>		15				<b>Total</b>			15		

## SOPHOMORE YEAR

First Semester		Sem				Second Semester		Sem			
		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		
MATH 2053	Discrete Mathematics (Pre req-Math 1124)	3				HIST 1313		U.S. to 1876 (Soc. & Beh. Sci.- Core)	3		
COMP	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		
<b>Total</b>		16				<b>Total</b>			16		

## JUNIOR YEAR

First Semester		Sem				Second Semester		Sem			
		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)	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)	3		
<b>Total</b>		15				<b>Total</b>			15		

## SENIOR YEAR

First Semester		Sem				Second Semester		Sem			
		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 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)	3		
	Social and Behavioral Science	3									
<b>Total</b>		15				<b>Total</b>			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