

COMPUTER SCIENCE DEGREE PROGRAM (2013 Catalog Total 122 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 (Co-req : 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 1224)	3				COMP 2033	Assembly Language (Pre req- COMP 1224)	3									
HIST 1313	U.S. to 1876 (Soc. & Beh. Sci.- Core)	3				COMP	Elective	3									
COMP 2103	Discrete Structures (Pre req-COMP 1224)	3				COMP	Elective	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 - COMP 2033)	3				COMP 3223	Software Engineering (Pre- COMP 2013)	3									
COMP 3043	Computer Orgn. (Pre - 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									
						GNEG 3061	Project Management	1									
Total		15				Total		16									

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 (Pre req - Senior Standing. Co- Req 4072)	1				COMP 4082	Senior Design Project II (Pre req - COMP 4072)	2									
COMP 4072	Senior Design Project I (Pre req - COMP 3223, COMP 3063, ENGL 1143, GNEG 3061. Co req COMP 4001)	2				COMP 4113	Programming Languages Design (Pre req - COMP 2013)	3									
COMP 4123	Computer Networks (Pre - 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

2013 ELECTIVES AND CS MINOR

• **HUMANITIES AND VISUAL AND PERFORMING ARTS OPTIONS**

NOTE: (Student can take 3 hours of Humanities and 3 hours of V&P ---OR--- 6 hours of V&P)

Humanities Option

DRAM 2213	African American Theater I	MUSC 1223	Fundamentals Of Music
DRAM 2223	African American Theater II	MUSC 2333	Afro-American Music
ENGL 2153	Intro. To Literature	PHIL 2013	Introduction to Philosophy
ENGL 2263	English Literature I	PHIL 2023	Ethics
ENGL 2273	English Literature II	FINA 2103	Personal financial management
MGMT 2203	Leadership and ethics in business		

Visual and Performing Arts Option

ARCH 1253	Arch Design I	DRAM 1103	Introduction To Theater
ARCH 2233	History Of Arch I	DRAM 2113	Theater History I
ARCH 2243	History Of Arch II	DRAM 2123	Theater History II
ARTS 1203	Introduction to Visual Arts	DESN 1123	Design II
ARTS 2223	History Of Arts I	DESN 2113	Design Illustration
ARTS 2233	History Of Arts II	MUSC 1213	Fundamentals Of Music
ARTS 2283	Afro-American Art	MUSC 1313	Music in Contemporary Life

• **SOCIAL AND BEHAVIORAL SCIENCES OPTIONS**

CRJS 1123	Crime in America	POSC 2213	Blacks In American Pol. Sys.
CRJS 1133	Principal of Criminal Justice	POSC 2503	Intro. To Global Issues
ECON 2003	Fundamental of Economics	PSYC 1113	General Psychology
ECON 2113	Principle Of Microeconomics	PSYC 2513	Psychology of Personality
ECON 2123	Principle Of Macroeconomics	PSYC 2613	Stat for Psyc I
GEOG 2633	Cultural Geography	SOCG 1013	General Sociology
HIST 1813	Survey of Civilization to 1500	SOCG 2003	Sociology Of Minorities
HIST 1823	Survey of Civi.1500 to Present	SOCG 2013	The Family
HDFM 2513	Childhood Disorders		
HDFM 2533	Contem. Family in Cross Cult.		
HDFM 2553	Human Development		

• **COMPUTER SCIENCE ELECTIVES**

Course Number	Course Description	Prerequisite
COMP 2003	Introduction to Web Design & Multimedia	Consent Of Advisor. Lower level CS elective.
COMP 2143	Introduction to Java	Consent Of Advisor. Lower level CS elective.
COMP 3113	Object Oriented Analysis & Design	COMP 2013
COMP 3203	System Analysis and Design	COMP 1224
COMP 3213	Graphics and Visual Computing	COMP 2013
COMP 4063	Artificial Intelligence	COMP 2013 and MATH 3023
COMP 4073	Special Topics	Consent Of Instructor
COMP 4843	Human-Computer Interaction	COMP 3223
COMP 4963	Introduction to Service Computing	COMP 4953
COMP 4991,4992,4993	Independent Study	Consent Of Advisor

• **ELIGIBILITY TO TAKE UPPER DIVISION COLLEGE COURSES**

The College of Engineering requires an eligibility standard for the students to take upper division college courses. Students in Computer Science Program must get a C or better in each of the Math, Science, English, and Computer Science courses to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

• **REQUIREMENTS FOR COMPUTER SCIENCE AS A MINOR FIELD.....31 SCH**

COMP 1214, 1224, 2013, 2033 and nine semester hours of upper-division courses.....	23 SCH
MATH 1124, 2024.....	8 SCH