

**BACHELOR OF COMPUTER SCIENCE DEGREE PROGRAM
CYBERSECURITY CONCENTRATION (2020 Catalog; Total 121 hours)**

Student Name: _____ UIN: _____ Advisor: _____ THEA: _____ Entry Date _____

FRESHMAN YEAR

<i>First Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>	<i>Second Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>
MATH 1124	Calculus I (pre-req: Math1123 or Math1115; 3-core)	4			ENGL 1123	Freshman Composition I	3		
COMM 1003	Fundamentals of Speech Comm.	3			MATH 2024	Calculus II (pre-req: Math 1124)	4		
	Science Course*	3				Global Awareness - Select one NOT completed for Univ. Soc. & Beh. Sci. Core	3		
	Science Course Lab*	1			COMP 1223	Computer Science II (Pre-req: COMP1211, 1213; Pre/Co-req: Math1124 & COMP1221)	3		
COMP 1011	Intro to Engr. & CS Tech.	1			COMP 1221	Computer Science Lab. II (Pre-req: COMP1211, 1213; Pre/Co-req: Math1124 & COMP1223)	1		
COMP 1213	CS-I (pre/co-req: Math1123 or Math1115; Co-req: COMP1211)	3							
COMP 1211	CS-I Lab. (pre/co-req: Math1123 or Math1115; Co-req: COMP1213)	1							
Total		16			Total		14		

SOPHOMORE YEAR

<i>First Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>	<i>Second Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>
COMP 2013	Data Structures (pre-req: COMP1223, 1221)	3			HIST 1313	U.S. TO 1876	3		
COMP 2043	Digital Logic Circuits (CS Elective)	3			COMP 3043	Computer Organization (pre-req: COMP2043)	3		
COMP 2103	Discrete Struc. (pre-req: COMP1223, 1221)	3			MATH 3023	Prob. and Statistics (pre-req: MATH2024)	3		
ENGL 1143	Technical Writing	3				Social and Behavioral Sciences	3		
	Science Course*	3				Science Course*	3		
	Science Course Lab*	1				Science Course Lab*	1		
Total		16			Total		16		

JUNIOR YEAR

<i>First Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>	<i>Second Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>
POSC 1113	American Government I	3			HIST 1323	The U.S. 1876 to present	3		
MATH 3073	Linear Algebra (pre-req: MATH2024)	3			COMP 3053	Analysis of Algorithms (pre-req: COMP2013 & 2103)	3		
COMP 3063	Operating Systems (pre-req: COMP2013 & [COMP3043 or ELEG4393])	3			COMP	Concentration Elective **	3		
COMP 3953	Database Management (pre-req: COMP2013)	3			COMP 3223	Software Engineering (pre-req: COMP2013)	3		
COMP 3323	Cryptography (pre-req: COMP2103)	3			COMP 4123	Computer Networks (pre-req: COMP3063)	3		
Total		15			Total		15		

SENIOR YEAR

<i>First Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>	<i>Second Semester</i>		<i>Hr</i>	<i>Gr</i>	<i>Yr</i>
COMP 4001	Ethics and Soc. Issues in Computing (co-req: COMP4072)	1			COMP 4082	Senior Design Project II (pre-req: COMP4072)	2		
COMP 4072	Senior Design Project I (pre-req: COMP3223, 3063; co-req: COMP4001)	2			COMP 4113	Programming Languages Design (pre-req: COMP2013)	3		
COMP 4233	Network Security (pre-req: COMP4123)	3			COMP 4313	Computer Forensics (pre-req: COMP3063)	3		
COMP 4143	Intro to Parallel Computing (pre-req: COMP2013, 2103)	3			COMP 4333	Ethical Hacking & Penetration Testing (pre-req: COMP3063, 4123)	3		
POSC 1123	American Government II	3				Lang, Phil, and Culture	3		
	Creative Arts	3							
Total		15			Total		14		

* Allowed Science Sequences: (counted towards Univ Life & Phy Sci core)

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 1011, PHYS 2513, PHYS 2511, PHYS 2523, PHYS

* Allowed Concentration Electives:

COMP 2133 Intro. Info Security, COMP 3313 Info Privacy, COMP 4323 Mobile Security

**UNIVERSITY CORE AND CYBERSECURITY CONCENTRATION ELECTIVES
(2020 CATALOG)**

CREATIVE ARTS

ARCH 1253	Arch Design I	DRAM 2223	African American Theater II
ARTS 1203	Introduction to Visual Arts	HCOL 1213	Honors Colloquium II
ARTS 2283	Afro-American Art	MUSC 1213	Fund Of Music
COMM 2643	Media Literacy	MUSC 1313	Music in Contemporary Life
DRAM 1103	Intro To Theater	MUSC 2333	Afro-American Music
DRAM 2213	African American Theater I	MUSC 2343	Survey of World Music

LANGUAGE, PHILOSOPHY AND CULTURE

ARCH 2233	History Of Arch I	ENGL 2383	Sur World Lit
ARCH 2243	History Of Arch II	HUMA 1303	Intro to Humanities
ARTS 2223	History Of Arts I	HUMA 1403	Mexican American Culture
ARTS 2233	History Of Arts II	PHIL 2023	Ethics
DRAM 2123	Theater History II	PHIL 2303	Critical Thinking
ENGL 2153	Intro. To Literature	SPAN 2023	Interim Span II
ENGL 2333	Studies In Lit		

SOCIAL AND BEHAVIORAL SCIENCES OPTIONS

CHEG 2003	Eco Anal Technical Application	HDFM 2553	Life Span Development
CRJS 1123	Crime in America	POSC 2213	Blacks In American Pol. Sys.
CRJS 1133	Principal of Criminal Justice	PSYC 1113	General Psychology
ECON 2113	Principle Of Microeconomics	PSYC 2423	Development Psychology
ECON 2123	Principle Of Macroeconomics	PSYC 2513	Personality
GEOG 1113	Intro To Geography	SOCG 1013	General Sociology
GEOG 2633	Cultural Geography	SOCG 2003	Sociology Of Minorities
HDFM 2513	Childhood Disorders		
HDFM 2533	Contem. Family in Cross Cult.		

GLOBAL AWARENESS (Select one course from this list not completed for the Social & Behavioral Sciences area above)

AGHR 1303	Land Grant System & Global Food Security	CURR 2003	Global Influences on Teacher Education
CVEG 2073	Global Development Issues	ECON 2003	Fundamentals of Economics in a Global Society
FINA 2133	Financial Planning with a Global Perspective	HIST 1813	World Civilization to 1500
HIST 1823	World Civilization since 1500	MGMT 2263	Leadership in a Global Environment
POSC 2503	Global Issues	SOCG 2043	Social Problems

COMPUTER SCIENCE ELECTIVES

Course Number	Course Description	Prerequisite

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 1213, 1211, 1223, 1221, 2013, 2103 and 9 semester hours of upper-division courses.....	23 SCH
MATH 1124, 2024.....	8 SCH