BACHELOR OF SCIENCE IN COMPUTER SCIENCE

ADMITTED IN 2024-2025 ACADEMIC YEAR

ECS: 130 C Control 130 Contro	YEAR TERM	MAIOR GENERAL EDUCATION							TOTAL CREDITS
VICUUM COMPLATIONS OF Regular COMPLATIONS OF Regular COMPLATIONS OF RELECTIVE LECTIVE FOR DURATIONS OF RELECTIVE LECTIVE FOR DURATIONS OF RELECTIVE LECTIVE FOR DURATIONS OF RELECTIVE LECTIVE FOR DURATIONS OF RELECTIVE Consult faculty advisor 17 NUMP CSCI 35 PROGRAMMING II PROGRAMMING II PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING III PROGRAMING IIII PROGRAMING IIII PROGRAMING IIII PROGRAMING IIIIIII PROGRAMING IIIIIIII PROGRAMING IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	.				CALCULUS I Pre-Req: Requires Placement, MATH 136 or	SCIENCE	FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires	MAKING SENSE OF A DATA-ORIENTED	16
VI COMPUTER PROGRAMMING II PROGRAMMING II PROGRAMING CONCE PROGRAMMING II PROGRAMMING II PROGRA	YE. SPRING	COMP. PROGRAMMING I Co-Req: MATH 136 or MATH			CALCULUS II	SCIENCE	FOUNDATIONS OF RESEARCH WRITING	ELECTIVE	17
Verticity CSCI 353 CSCI 353, and MATH Tex-Reg: CSCI 125, and MATH 150 mMATH 170 COMPUTER ORGANIZATION Pre-Reg: CSCI 125, CSCI 135 or EXECUTIVE COMPUTER ORGANIZATION Required COMPUTER, INTERNET Required Peter CELIFIVE Required Peter CELIFIVE Required Peter CSCI 125, CSCI 135, and MATH Required 15 Vert CSCI 330 OPERATING SYSTEMS Pre-Reg: CSCI 250 and CSCI 135. CSCI 270 Pre-Reg: CSCI 250 SCI 312 THEORY OF COMPUTATION STATISTICS FOR CS Pre-Reg: CSCI 250 CSCI 312 THEORY OF COMPUTATION Pre-Reg: CSCI 250 CSCI 313 CSCI 335 CSCI 312 Co-Reg: CSCI 260 SCI 313 CSCI 335 CSCI 335 THEORY OF COMPUTATION Pre-Reg: CSCI 260 MATH/SCIENCE 3 ELECTIVE Department Approval Required MATH/SCIENCE 3 ELECTIVE Department Approval Required ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Reg: FCWR 151/161 15 Vert SCI 345 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Reg: CSCI 260 CSCI 330 DATABASE MANAGEMENT Co-Reg: CSCI 260 COMPUTER STATE Co-Reg: CSCI 260 MATH/SCIENCE 3 ELECTIVE Department Approval Required ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Reg: FCWR 151/161 15 Vert CSCI 456 SENIOR PROJECT I Course Is limited to seniors CSCI 260 COMPUTER SCI 260 COMPUTER SCI 260 MATH/SCIENCE 3 SCIENCE Concentration Department Approval MATH/SCIENCE 3 ELECTIVE ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICXS) Pre-Reg: FCWR 151/161 <t< td=""><td>2</td><td>COMPUTER PROGRAMMING II</td><td>DIGITAL LOGIC DESIGN FUNDAMENTALS Pre-Req: MATH 136 or MATH</td><td></td><td>LINEAR ALGEBRA</td><td>SCIENCE</td><td>COMMUNICATION FOR TECHNICAL PROFESSIONS</td><td></td><td>15</td></t<>	2	COMPUTER PROGRAMMING II	DIGITAL LOGIC DESIGN FUNDAMENTALS Pre-Req: MATH 136 or MATH		LINEAR ALGEBRA	SCIENCE	COMMUNICATION FOR TECHNICAL PROFESSIONS		15
Image: Proper Parting Systems PROBABILITY AND STATISTICS FOR CS Pre-Reg: CSCI 250 PROGRAMMING LANGUAGE CONCEPTS Co-Reg: CSCI 250 PROGRAMMING LANGUAGE CONCEPTS Co-Reg: CSCI 250 Seminar Choice (ICBS, ICLT, ICPH, or ICBS, Pre-Reg: FCWR 151/161 Proper Participation (CBS, ICLT, ICPH, or ICBS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICBS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICBS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Participation (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) Proper Paris (CBS, ICLT, ICPH, or ICSS, Pre-Reg: FCWR 151/161) <td>YEA SPRING</td> <td></td> <td>ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185, and MATH</td> <td>COMPUTER ORGANIZATION AND ARCHITECTURE Pre-Req: CSCI 125, CSCI 135 or</td> <td>COMPUTER, INTERNET</td> <td>ELECTIVE Department Approval</td> <td></td> <td></td> <td>15</td>	YEA SPRING		ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185, and MATH	COMPUTER ORGANIZATION AND ARCHITECTURE Pre-Req: CSCI 125, CSCI 135 or	COMPUTER, INTERNET	ELECTIVE Department Approval			15
Verture Design AND ANALYSIS OF ALGORITHMS COMPUTER NETWORKS Pre-Req: CSCI 260 DATABASE MANAGEMENT Co-Req: CSCI 260 Department Approval Required Settinate Choice (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 Settinate Choice (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 15 Verture CSCI 456 CSCI 380 COMPUTER INTRO. TO SOFTWARE ENGINEERING Co-Req: CSCI 260 COMPUTER SCIENCE CONCENTRATION Department Approval COMPUTER Required Settinate Choice (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 15 Verture CSCI 457 COMPUTER SCIENCE Concentration Department Consent Required Course is limited to seniors COMPUTER SCIENCE CONCENTRATION Department Approval Settinate Choice (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 16 Verture CSCI 457 COMPUTER SCIENCE CONCENTRATION Department Approval COMPUTER SCIENCE CONCENTRATION Department Approval GENERAL ELECTIVE IEICATIVE SetMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 17 Verture CSCI 457 COMPUTER SCIENCE CONCENTRATION Department Approval GENERAL ELECTIVE GENERAL ELECTIVE IEICATIVE	m	OPERATING SYSTEMS Pre-Req: CSCI 260 and CSCI	PROBABILITY AND STATISTICS FOR CS Pre-Req: MATH 180 and CSCI	THEORY OF COMPUTATION	PROGRAMMING LANGUAGE CONCEPTS		SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS)		15
Image: Propertiment Consent Required Course is limited to seniors INTRO. TO SOFTWARE ENGINEERING CONCENTRATION Department Approval SCIENCE CONCENTRATION Department Approval ELECTIVE Department Approval Required SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 17 Image: Propertiment Consent Required Course is limited to seniors COMPUTER 3 SCIENCE CONCENTRATION Department Approval SCIENCE CONCENTRATION Department Approval ELECTIVE SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 17 Image: Propertiment Consent Required Course is limited to seniors COMPUTER 3 SCIENCE CONCENTRATION Department Approval SCIENCE CONCENTRATION Department Approval Image: Propertiment Approval Bit Propertiment Approval Image: Propertiment Approval Bit Propertin Approval Bit Propertiment Approval Bit Propertiment	ž	DESIGN AND ANALYSIS OF	COMPUTER NETWORKS	DATABASE MANAGEMENT		ELECTIVE Department Approval	SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS)		15
SENIOR PROJECT II SCIENCE SCIENCE CONCENTRATION Pepartment Consent Required TECHNOLOGY AND Department Consent Required Department Approval Department Approv	4	SENIOR PROJECT I Department Consent Required Course is limited to seniors	INTRO. TO SOFTWARE ENGINEERING	SCIENCE CONCENTRATION	SCIENCE CONCENTRATION	ELECTIVE Department Approval	SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS)		17
CREDITS 122-12	YE. SPRING	SENIOR PROJECT II Department Consent Required	SCIENCE CONCENTRATION	SCIENCE CONCENTRATION			TECHNOLOGY AND GLOBAL ISSUES		14
	CREDITS								122-124

* Three seminar courses must be chosen from 4 subject areas, ICLT, ICPH, ICBS and ICSS, of which ICLT, ICPH and ICBS may be duplicated.

Co-Op Option: ETCS 300 (Foundations for Success in CoECS Co-Op) and ETCS 301 (CoECS Co-Op)

[Note] Students must receive C- or higher in all required Math, PHYS, ETCS, CSCI, EENG, and ITEC courses.

Course names, numbers and/or pre-requisites are subject to change. (Rev 4/24)

**:	*Natural Science Options: Choose one		Computer Science Concentration Options: Select one concentration and complete 12 credits			
Option I	Option II	Option III	Big Data Management and Analytics	Network Security	General Option	
PHYS 170 General Physics I	CHEM 110 General Chemistry I	BIOL 110 General Biology I	CSCI 401 Database Interfaces and	CSCI 352 Intro to Network and Internet Security	Choose four	
PHYS 180 General Physics II	CHEM 150 General Chemistry II	BIOL 150 General Biology II	Programming	CSCI 354 Principles of Information Security	CSCI/ITEC 300-400	
Life Science Elective: Biology or	Physics Elective (3 credits)	Physics Elective (3 credits)	CSCI 405 Distributed Database Systems	CSCI 357 CISCO Academy Level 1	level courses	
Chemistry (3 credits)			CSCI 415 Introduction to Data Mining	CSCI 362 Info. System Security Engineering & Admin.		
			CSCI 426 Information Retrieval	CSCI 440 Advanced Network & Internet Security		
			CSCI 436 Big Data Analytics	CSCI 445 Operating System Security		
				CSCI 460 Special Topics I		
				CSCI 470 Special Topics II		