

YEAR TERM		MAJOR					GENERAL EDUCATION		TOTAL CREDITS
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY 2			MATH 170 CALCULUS I 4 Pre-Req: Requires Placement, MATH 136 or MATH 141	NATURAL SCIENCE ELECTIVE *** 4	FCWR 101/111 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement	DATA 101 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY	16
	SPRING	CSCI 125 3 COMP. PROGRAMMING I Co-Req: MATH 136 or MATH 141 or higher			MATH 180 4 CALCULUS II Pre-Req: MATH 170	NATURAL SCIENCE ELECTIVE *** 4	FCWR 151/161 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111	LIBERAL ARTS ELECTIVE 3 Consult faculty advisor	17
YEAR 2	FALL	CSCI 185 3 COMPUTER PROGRAMMING II Pre-Req: CSCI 125	CSCI 135 3 DIGITAL LOGIC DESIGN FUNDAMENTALS Pre-Req: MATH 136 or MATH 141 or higher		MATH 310 3 LINEAR ALGEBRA Pre-Req: MATH 180	NATURAL SCIENCE ELECTIVE *** 3	FCWR 304 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151/161		15
	SPRING	CSCI 260 3 DATA STRUCTURES Pre-Req: CSCI 185	CSCI 235 3 ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185, and MATH 161 or MATH 170	CSCI 155 3 COMPUTER ORGANIZATION AND ARCHITECTURE Pre-Req: CSCI 125, CSCI 135 or EENG 125	ETCS 108 3 COMPUTER, INTERNET AND SOCIETY	MATH/SCIENCE ELECTIVE 3 Department Approval Required			15
YEAR 3	FALL	CSCI 330 3 OPERATING SYSTEMS Pre-Req: CSCI 260 and CSCI 185	CSCI 270 3 PROBABILITY AND STATISTICS FOR CS Pre-Req: MATH 180 and CSCI 235	CSCI 312 3 THEORY OF COMPUTATION Pre-Req: CSCI 235	CSCI 318 3 PROGRAMMING LANGUAGE CONCEPTS Co-Req: CSCI 260		ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161		15
	SPRING	CSCI 335 3 DESIGN AND ANALYSIS OF ALGORITHMS Pre-Req: CSCI 260	CSCI 345 3 COMPUTER NETWORKS Pre-Req: CSCI 260	CSCI 300 3 DATABASE MANAGEMENT Co-Req: CSCI 260		MATH/SCIENCE ELECTIVE 3 Department Approval Required	ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161		15
YEAR 4	FALL	CSCI 456 2 SENIOR PROJECT I Department Consent Required Course is limited to seniors	CSCI 380 3 INTRO. TO SOFTWARE ENGINEERING Co-Req: CSCI 260	COMPUTER SCIENCE CONCENTRATION 3 Department Approval	COMPUTER SCIENCE CONCENTRATION 3 Department Approval	MATH/SCIENCE ELECTIVE 3 Department Approval Required	ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161		17
	SPRING	CSCI 457 2 SENIOR PROJECT II Department Consent Required Course is limited to seniors	COMPUTER SCIENCE CONCENTRATION 3 Department Approval	COMPUTER SCIENCE CONCENTRATION 3 Department Approval		GENERAL ELECTIVE 3	IENG 400 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status		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 PHYS 180 General Physics II Life Science Elective: Biology or Chemistry (3 credits)	CHEM 110 General Chemistry I CHEM 150 General Chemistry II Physics Elective (3 credits)	BIOL 110 General Biology I BIOL 150 General Biology II Physics Elective (3 credits)	CSCI 401 Database Interfaces and Programming CSCI 405 Distributed Database Systems CSCI 415 Introduction to Data Mining CSCI 426 Information Retrieval CSCI 436 Big Data Analytics	CSCI 352 Intro to Network and Internet Security CSCI 354 Principles of Information Security CSCI 357 CISCO Academy Level 1 CSCI 362 Info. System Security Engineering & Admin. CSCI 440 Advanced Network & Internet Security CSCI 445 Operating System Security CSCI 460 Special Topics I CSCI 470 Special Topics II	Choose four CSCI/ITEC 300-400 level courses