COLLEGE OF ENGINEERING AND COMPUTING SCIENCES | BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY WITH CONCENTRATION IN INFORMATION AND NETWORK SECURITY | Admitted in 2022-2023 Academic Year

YEAR 1

FALL (17 credits)

Course	Credits	Notes
ETCS 105 CAREER DISCOVERY	2	
PHYSICS ELECTIVE	3	
MATH 161 BASIC APPLIED CALC.	3	Pre-Req: Placement Exam or MATH 136 or MATH 141
LIBERAL ARTS ELECTIVE	3	
FCWR 101* FOUNDATIONS OF COLLEGE COMPOSITION	3	Pre-Req: Placement Exam or WRIT 100
FCSP 105 FOUNDATIONS OF SPEECH COMMUNICATION	3	

SPRING (15 credits)

Course	Credits	Notes
CSCI 125 COMPUTER PROGRAMMING I	3	Co-Req: MATH 136 or MATH 141 or higher
ITEC 251 APPLIED DISCRETE STRUCTURES I	3	Pre-Req: CSCI 125, and MATH 161 or MATH 170 (CSCI 135 is an approved substitution)
MATH ELECTIVE	3	
SCIENCE ELECTIVE	3	
FCWR 151* FOUNDATIONS OF RESEARCH WRITING	3	Pre-Req: WRIT 101 or FCWR 101

YEAR 2

FALL (15 credits)

Course	Credits	Notes
CSCI 185 COMPUTER PROGRAMMING II	3	Pre-Req: CSCI 125
CSCI 155 COMPUTER ORGANIZATION AND ARCHITECTURE	3	Pre-Req: CSCI 125, CSCI 135 or EENG 125, and MATH 161 or MATH 170
IENG 251 PROJECT ENGINEERING	3	Pre-Req: MATH 160 or MATH 161 or MATH 170
GENERAL ELECTIVE	3	
FCWR 304 COMMUNICATION FOR TECHNICAL PROFESSIONS	3	Pre-Req: FCWR 101 and FCWR 151

SPRING (15 credits)

Course	Credits	Notes
CSCI 235 ELEMENTS OF DISCRETE STRUCTURES	3	Pre-Req: CSCI 185, and MATH 161 or MATH 170
CSCI 260 DATA STRUCTURES	3	Pre-Req: CSCI 180 or CSCI 185 or CSCI 210, and MATH 161 or MATH 170
ETCS 108 COMPUTER, INTERNET, AND SOCIETY	3	
SCIENCE/ TECHNOLOGY ELECTIVE	3	Consult faculty advisor
ICLT 3XX** LITERATURE CHOICE	3	Pre-Req: FCWR 101 and FCWR 151

YEAR 3

FALL (15 credits)

Course	Credits	Notes
CSCI 330 OPERATING SYSTEMS	3	Pre-Req: CSCI 260, and CSCI 185 or CSCI 210
ITEC 290 DATABASE SYSTEMS	3	Pre-Req: CSCI 260 (Cross-listed with CSCI 300)
ITEC 305 INTERNET PROGRAMMING I	3	Pre-Req: CSCI 260
ITEC 320 WEB MULTIMED DEVELOPMENT I	3	Pre-Req: CSCI 260; Co-Req: ITEC 305
SCIENCE/ TECHNOLOGY ELECTIVE	3	Consult faculty advisor

SPRING (15 credits)

Course	Credits	Notes
CSCI 345 COMPUTER NETWORKS	3	Pre-Req: CSCI 330
PROFESSIONAL CONCENTRATION***	3	
SCIENCE/ TECHNOLOGY ELECTIVE	3	Consult faculty advisor
GENERAL ELECTIVE	3	
ICBS 3XX** BEHAVIORAL SCIENCE CHOICE	3	Pre-Req: FCWR 101 and FCWR 151

YEAR 4

FALL (15 credits)

Course	Credits	Notes
PROFESSIONAL CONCENTRATION***	3	
ITEC 357 CISCO ACADEMY LEVEL 1	3	Department Approval
MGMT 421 CYBER LAW, POLICY AND ETHICS	3	(MGMT 311 is an approved substitution)
GENERAL ELECTIVE	3	
ICPH 3XX** PHILOSOPHY CHOICE	3	Pre-Req: FCWR 101 and FCWR 151

SPRING (15 credits)

Course	Credits	Notes
PROFESSIONAL CONCENTRATION***	3	
SCIENCE/ TECHNOLOGY ELECTIVE	3	Consult faculty advisor
GENERAL ELECTIVE	3	
LIBERAL ARTS ELECTIVE	3	
ICSS 309/IENG 400** TECHNOLOGY AND GLOBAL ISSUES	3	Pre-Req: FCWR 101 and FCWR 151

CREDITS: 120 - 122

*Non-native English speakers take FCWR 111 instead of FCWR 101 and FCWR 161 instead of FCWR 151.
Co-Op Option: ETCS 300 (Foundations for Success in CoECS Co-Op) and ETCS 301 (CoECS Co-Op).

Course names, numbers and/or pre-requisites are subject to change.
(REV 3/22)

***PROFESSIONAL CONCENTRATION (COMPLETE 9 CREDITS FROM ONE OF THE FOLLOWING OPTIONS):

INFORMATION AND NETWORK SECURITY OPTION						GENERAL OPTION		
COURSE	CREDITS	PRE-REQUISITES/ CO- REQUISITES	COURSE	CREDITS	PRE-REQUISITES/ CO- REQUISITES	COURSE	CREDITS	PRE-REQUISITES/ CO-REQUITES
ITEC 310	3	CSCI 345 or CSCI 370	ITEC 445	3	ITEC 385, and CSCI 345 or CSCI 370	CSCI/ITEC ELECTIVE	3	-APPROVAL FROM ADVISOR -MUST BE 300 OR 400 LEVEL COURSE
ITEC 365	3	ITEC 305	ITEC 450	3	APPROVAL OF CHAIRPERSON	CSCI/ITEC ELECTIVE	3	
ITEC 440	3	CSCI 345 or CSCI 370; Co-Req: ITEC 385	ITEC 460	3	ITEC 385	CSCI/ITEC ELECTIVE	3	