

YEAR TERM		MAJOR					MAJOR/CORE		TOTAL CREDITS
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY 2		PHYS 170 GENERAL PHYSICS I Co-Req: MATH 170 4		MATH 170 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141 4	FCWR 101* FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100 3	FCSP 105 FOUNDATIONS OF SPEECH COMMUNICATION 3	16
	SPRING			PHYS 180 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180 4	CSCI 125 COMPUTER PROGRAMMING I Co-Req: MATH 136 or MATH 141 or higher 3	MATH 180 CALCULUS II Pre-Req: MATH 170 4	FCWR 151* FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101 3	LIBERAL ARTS ELECTIVE 3	17
YEAR 2	FALL	EENG 125 FUNDAMENTALS OF DIGITAL LOGIC 3	EENG 212 ELECTRICAL CIRCUITS I & ENGINEERING TOOLS Pre-Req: PHYS 180 and MATH 180; Co-Req: MATH 260 4		CSCI 185 COMPUTER PROGRAMMING II Pre-Req: CSCI 125 3	MATH 260 CALCULUS III Pre-Req: MATH 180 4		FCWR 304 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151 3	17
	SPRING	EENG 270 INTRODUCTION TO ELECTRONICS CIRCUITS Pre-Req: EENG 211 or EENG 212 3	EENG 281 ELECTRICAL CIRCUITS II Pre-Req: EENG 211 or EENG 212, CSCI 185; Co-Req: MATH 320 3	EENG 275 ELECTRONICS LAB I Pre-Req: EENG 211 or EENG 212 or EENG 221, and FCWR 101 or FCWR 111 1	CSCI 155 COMPUTER ORGANIZATION AND ARCHITECTURE Pre-Req: CSCI 125, EENG 125 or CSCI 135, and MATH 161 or MATH 170 3	MATH 320 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 3	PHYS 225 INTRODUCTION TO MODERN PHYSICS Pre-Req: PHYS 180 3		16
YEAR 3	FALL	EENG 310 ELECTRONIC CIRCUIT APPLICATIONS Pre-Req: EENG 270; Co-Req: EENG 281 3	EENG 320 CONTROL SYSTEMS Pre-Req: EENG 260 or EENG 280 or EENG 281 3	EENG 315 ELECTRONICS LAB II Pre-Req: EENG 270 and EENG 275 1	CSCI 260 DATA STRUCTURES Pre-Req: MATH 161 or MATH 170, and CSCI 185 3	MATH 310 LINEAR ALGEBRA Pre-Req: MATH 180 3	CHEM 107 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher 4		17
	SPRING	EENG 330 ELECTROMAGNETIC THEORY I Pre-Req: MATH 320 and PHYS 180 3	EENG 341 SIGNALS AND SYSTEMS Pre-Req: EENG 281 3	EENG 360 ELECTRONICS LAB III Pre-Req: EENG 310, EENG 315 and FCWR 304 1	EENG 371 MICROPROCESSORS & EMBEDDED SYSTEMS Pre-Req: CSCI 155 3	CSCI 235 ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185, and MATH 161 or MATH 170 3	ICBS 3XX** BEHAVIORAL SCIENCE CHOICE 3		16
YEAR 4	FALL	EENG 382 RANDOM SIGNALS AND STATISTICS Pre-Req: EENG 340 or EENG 341 3	EENG 401 COMMUNICATION THEORY Pre-Req: EENG 340 or EENG 341; Co-Req: EENG 382 3	EENG 403 ELECTRONICS LAB IV Pre-Req: EENG 371; Co-Req: EENG 401 1	EENG 489 SENIOR DESIGN PROJECT I Pre-Req: EENG 320, EENG 330 and EENG 371; Department Consent Required 2	CSCI 330 OPERATING SYSTEMS Pre-Req: CSCI 260 and CSCI 185 3	ELECTRICAL/ COMPUTER SCIENCE ELECTIVE Department Approval Required 3	ICLT 3XX** LITERATURE CHOICE 3	18
	SPRING	MENG 211 ENGINEERING MECHANICS I (STATICS) Pre-Req: PHYS 170 and MATH 180 3	EENG 491 SENIOR DESIGN PROJECT II Pre-Req: EENG 401 and EENG 489; Department Consent Required 2		ELECTRICAL/ COMPUTER SCIENCE ELECTIVE Department Approval Required 3	STEM ELECTIVE MATH, PHYS or course offered by the ECE Department 3	ICSS 309/IENTG 400** 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status	ICPH 3XX** PHILOSOPHY CHOICE 3	17
CREDITS									134

*Non-native English speakers should take FCWR 111 in lieu of FCWR 101 and FCWR 161 in lieu of FCWR 151.

**Pre-Req: FCWR 101, FCWR 151, FCIQ 101, FCSP 105, FCSC 101

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

Students must receive 'C-' or higher in all required Math, Science, ETCS, EENG, MENG & CSCI courses.

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