

YEAR TERM		MAJOR COURSES					CORE COURSES		TOTAL CREDITS
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY 2	CENG 201 CIVIL ENGINEERING GRAPHICS 3	MATH 170 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141 4	PHYS 170 GENERAL PHYSICS I Co-Req: MATH 170 4		FCWR 101* FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100 3		16
	SPRING		IENG 251 PROJECT ENGINEERING Pre-Req: MATH 170 or MATH 161 3	MATH 180 CALCULUS II Pre-Req: MATH 170 4	PHYS 180 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180 4	CHEM 107 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher 4	FCWR 151* FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101 3		18
YEAR 2	FALL		MENG 201 ENGINEERING PROGRAMMING Co-Req: MATH 170 or MATH 161 3	MENG 211 STATICS Pre-Req: MATH 180, PHYS 170 3	MATH 260 CALCULUS III Pre-Req: MATH 180 4		FCWR 304 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151 3	FCSP 105 FOUNDATIONS OF SPEECH COMMUNICATION 3	16
	SPRING	CENG 260 CIVIL ENGINEERING MATERIALS Pre-Req: CHEM 107 3	MENG 221 STRENGTH OF MATERIALS Pre-Req: MENG 211, MATH 180 3	MENG 212 DYNAMICS Pre-Req: MENG 211 Co-Req: MATH 260 3	MATH 320 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 3	CENG 301 SURVEYING AND GEOMATICS Pre-Req: MATH 180, CENG 201 3			15
YEAR 3	FALL	CENG 310 STEEL STRUCTURES Pre-Req MENG 221, CENG 260 3	CENG 320 MECHANICAL AND ELECTRICAL SYSTEMS IN BUILDINGS Pre-Req: PHYS 180 3		IENG 240 ENGINEERING ECONOMICS Pre-Req MATH 141 or MATH 136 3	STEM ELECTIVE 3 MATH/PHYS 3XX or 4XX, or 3XX and above CoECS course	LIBERAL ARTS ELECTIVE 3		15
	SPRING	CENG 340 STRUCTURAL ANALYSIS & DESIGN Pre-Req: MENG 221, CENG 260, MATH 320 3	CENG 360 GEOTECHNICAL ENGINEERING Pre-Req: MENG 221 3	CENG 312 CONCRETE STRUCTURES Pre-Req MENG 221, CENG 260 3	IENG 245 STATISTICAL DESIGN I Pre-Req MATH 116 or MATH 70 3	ARCH 471 CONSTRUCTION SUPERVISION & MANAGEMENT 3			15
YEAR 4	FALL	CENG 380 FLUID MECHANICS AND HYDRAULICS Pre-Req: MATH 320 3			ARCH 473 CONSTRUCTION MANAGEMENT CONTRACTS 3	TECHNOLOGY ELECTIVE 3	ICPH 3XX** PHILOSOPHY CHOICE 3	ICSS 309/ IENG 400** TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status 3	15
	SPRING	CENG 470 CONSTRUCTION ENGINEERING SENIOR DESIGN Pre-Req: CENG 340, CENG 360, ARCH 311, ARCH 312 4			ARCH 476 MODERN CONSTRUCTION TECHNOLOGIES 3	TECHNOLOGY ELECTIVE 3	ICBS 3XX** BEHAVIORAL SCIENCE CHOICE 3	ICLT 3XX** LITERATURE CHOICE 3	16
CREDITS									124-126

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

(Rev. 3/22)

**Pre-Req: FCWR 101, 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.