

YEAR TERM		MAJOR COURSES					CORE COURSES		TOTAL CREDITS
YEAR 1	FALL	ETCS 105 2 CAREER DISCOVERY	CENG 201 3 CIVIL ENGINEERING GRAPHICS	MATH 170 4 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141	PHYS 170 4 GENERAL PHYSICS I Co-Req: MATH 170		FCWR 101* 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100		16
	SPRING		IENG 251 3 PROJECT ENGINEERING Pre-Req: MATH 170 or MATH 161	MATH 180 4 CALCULUS II Pre-Req: MATH 170	PHYS 180 4 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180	CHEM 107 4 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher	FCWR 151* 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101		18
YEAR 2	FALL		MENG 201 3 ENGINEERING PROGRAMMING Co-Req: MATH 170 or MATH 161	MENG 211 3 STATICS Pre-Req: MATH 180, PHYS 170	MATH 260 4 CALCULUS III Pre-Req: MATH 180		FCWR 304 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151	FCSP 105 3 FOUNDATIONS OF SPEECH COMMUNICATION	16
	SPRING	CENG 260 3 CIVIL ENGINEERING MATERIALS Pre-Req: CHEM 107	MENG 221 3 STRENGTH OF MATERIALS Pre-Req: MENG 211, MATH 180	MENG 212 3 DYNAMICS Pre-Req: MENG 211 Co-Req: MATH 260	MATH 320 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	CENG 301 3 SURVEYING AND GEOMATICS Pre-Req: MATH 180, CENG 201			15
YEAR 3	FALL	CENG 310 3 STEEL STRUCTURES Pre-Req MENG 221, CENG 260	CENG 320 3 MECHANICAL AND ELECTRICAL SYSTEMS IN BUILDINGS Pre-Req: PHYS 180		IENG 240 3 ENGINEERING ECONOMICS Pre-Req MATH 141 or MATH 136	STEM ELECTIVE 3 MATH/PHYS 3XX or 4XX, or 3XX and above CoECS course	LIBERAL ARTS ELECTIVE 3		15
	SPRING	CENG 340 3 STRUCTURAL ANALYSIS & DESIGN Pre-Req: MENG 221, CENG 260, MATH 320	CENG 360 3 GEOTECHNICAL ENGINEERING Pre-Req: MENG 221	CENG 312 3 CONCRETE STRUCTURES Pre-Req MENG 221, CENG 260	IENG 245 3 ENGINEERING ECONOMICS Pre-Req MATH 170	ARCH 471 3 CONSTRUCTION SUPERVISION & MANAGEMENT			15
YEAR 4	FALL	CENG 380 3 FLUID MECHANICS AND HYDRAULICS Pre-Req: MATH 320			ARCH 473 3 CONSTRUCTION MANAGEMENT CONTRACTS	TECHNOLOGY ELECTIVE 3	ICPH 3XX** 3 PHILOSOPHY CHOICE	ICSS 309/ IENG 400** 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status	15
	SPRING	CENG 470 4 CONSTRUCTION ENGINEERING SENIOR DESIGN Pre-Req: CENG 340, CENG 360, ARCH 311, ARCH 312			ARCH 476 3 MODERN CONSTRUCTION TECHNOLOGIES	TECHNOLOGY ELECTIVE 3	ICBS 3XX** 3 BEHAVIORAL SCIENCE CHOICE	ICLT 3XX** 3 LITERATURE CHOICE	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. 4/21)

**Pre-Req: FCWR 101, FCWR 151

Course names, numbers and/or pre-requisites are subject to change.