

YEAR TERM		MAJOR					GENERAL EDUCATION		TOTAL CREDITS
YEAR 1	FALL	<b>ETCS 105</b> 2 CAREER DISCOVERY	<b>CENG 201</b> 3 CIVIL ENGINEERING GRAPHICS	<b>MATH 170</b> 4 CALCULUS I Pre-Req: Requires Placement or MATH 136 or MATH 141	<b>PHYS 170</b> 4 GENERAL PHYSICS I Co-Req: MATH 170		<b>FCWR 101/111</b> 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement		16
	SPRING		<b>IENG 251</b> 3 PROJECT ENGINEERING Pre-Req: MATH 170 or MATH 161	<b>MATH 180</b> 4 CALCULUS II Pre-Req: MATH 170	<b>PHYS 180</b> 4 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180	<b>CHEM 107</b> 4 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher	<b>FCWR 151/161</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111		18
YEAR 2	FALL		<b>MENG 201</b> 3 ENGINEERING PROGRAMMING Co-Req: MATH 170 or MATH 161	<b>MENG 211</b> 3 STATICS Pre-Req: MATH 180, PHYS 170	<b>MATH 260</b> 4 CALCULUS III Pre-Req: MATH 180		<b>FCWR 304</b> 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151/161	<b>DATA 101</b> 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY	16
	SPRING	<b>CENG 260</b> 3 CIVIL ENGINEERING MATERIALS Pre-Req: CHEM 107	<b>MENG 221</b> 3 STRENGTH OF MATERIALS Pre-Req: MENG 211, MATH 180	<b>MENG 212</b> 3 DYNAMICS Pre-Req: MENG 211 Co-Req: MATH 260	<b>MATH 320</b> 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	<b>CENG 301</b> 3 SURVEYING AND GEOMATICS Pre-Req: MATH 170, CENG 201			15
YEAR 3	FALL	<b>CENG 310</b> 3 STEEL STRUCTURES Pre-Req MENG 221, CENG 260	<b>CENG 320</b> 3 MECHANICAL AND ELECTRICAL SYSTEMS IN BUILDINGS Pre-Req: PHYS 180		<b>IENG 240</b> 3 ENGINEERING ECONOMICS Pre-Req MATH 141 or MATH 136	<b>STEM ELECTIVE</b> 3 MATH/PHYS 3XX or 4XX, or 3XX and above CoECS course	<b>LIBERAL ARTS ELECTIVE</b> 3		15
	SPRING	<b>CENG 340</b> 3 STRUCTURAL ANALYSIS & DESIGN Pre-Req: MENG 221, CENG 260, MATH 320	<b>CENG 360</b> 3 GEOTECHNICAL ENGINEERING Pre-Req: MENG 221	<b>CENG 312</b> 3 CONCRETE STRUCTURES Pre-Req MENG 221, CENG 260	<b>IENG 245</b> 3 STATISTICAL DESIGN I Pre-Req MATH 161 or MATH 170	<b>ARCH 472</b> 3 CONSTRUCTION MANAGEMENT & CONTRACTS			15
YEAR 4	FALL	<b>CENG 380</b> 3 FLUID MECHANICS AND HYDRAULICS Pre-Req: MATH 320			<b>CENG 330</b> 3 CONSTRUCTION EQUIPMENT & METHODS Pre-Req CENG 201, CENG 260	<b>TECHNOLOGY ELECTIVE</b> 3	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161	<b>IENG 400</b> 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status	15
	SPRING	<b>CENG 470</b> 4 CONSTRUCTION ENGINEERING SENIOR DESIGN Pre-Req: CENG 340, CENG 360, ARCH 311, ARCH 312			<b>CENG 410</b> 3 CONSTRUCTION COST ESTIMATION, PLANNING & CONTROL Pre-Req CENG 330, IENG 251	<b>TECHNOLOGY ELECTIVE</b> 3	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161	<b>ICXX 3XX*</b> 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161	16
CREDITS									124-126
CREDITS									120 - 122

\* 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)

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

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