

YEAR TERM		MAJOR					GENERAL EDUCATION		TOTAL CR.
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY 2		ACCT 101 ACCOUNTING I 3	MATH 135 FUNDAMENTALS OF PRECALCULUS I Pre-Req: Requires Placement 4	ECON 202 PRINCIPLES OF ECONOMICS I 3	FCWR 101/111 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement 3		15
	SPRING			MGMT 102 PRINCIPLES OF MANAGEMENT 3	MATH 136 FUNDAMENTALS OF PRECALCULUS II Pre-Req: MATH 135 4	LIBERAL ARTS ELECTIVE 3	FCWR 151/161 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111 3	DATA 101 MAKING SENSE OF A DATA-ORIENTED SOCIETY 3	16
YEAR 2	FALL	IENG 240 ENGINEERING ECONOMICS Pre-Req: MATH 136 or MATH 141 or higher math 3		MRKT 102 INTRODUCTION TO MARKETING 3	MATH 161 BASIC APPLIED CALC. Pre-Req: Placement Exam or MATH 136 or MATH 141 3	PHYS 130 INTRO PHYSICS Pre-Req: MATH 135 3	CHEM 107 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher 4		16
	SPRING	IENG 245 STATISTICAL DESIGN I Pre-Req: MATH 161 or MATH 170 or MATH 235 3	IENG 251 PROJECT ENGINEERING Pre-Req: MATH 161 or MATH 170 3	MENG 105 ENGINEERING GRAPHICS 1	MENG 201 ENGINEERING PROGRAMMING Pre-Req: MATH 161 or MATH 170 3	PHYS 150 INTRO PHYSICS II Pre-Req: PHYS 130 3	ICXX 3XX* SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 3		16
YEAR 3	FALL	IENG 510 ENERGY MANAGEMENT 3	IENG 350 QUALITY CONTROL AND RELIABILITY Pre-Req: MATH 136 or MATH 141 or higher math 3	FINC 201 CORPORATION FINANCE Pre-Req: ACCT 101, ECON 202, and MATH 136 or MATH 141 or higher math 3	MGMT 370 ORGANIZATIONAL BEHAVIOR Pre-Req: MGMT 102 3		FCWR 304 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151/161 3		15
	SPRING	IENG 345 STATISTICAL DESIGN II Pre-Req: IENG 245 3	IENG 421 TECHNOLOGY & ENTREPRENEURSHIP 3	MENG 310 INTRODUCTION TO MATERIAL SCIENCE Pre-Req: CHEM 107 3	TECHNICAL ELECTIVE* 3	STEM ELECTIVE Select from any PHYS, MATH or courses offered by CoECS. 3			15
YEAR 4	FALL	IENG 450 SYSTEMS ENGINEERING & ANALYSIS Pre-Req: IENG 245 and IENG 251 3	IENG 380 OPERATIONS RESEARCH I Pre-Req: IENG 345 3		INDUSTRIAL ENGINEERING ELECTIVE** 3		IENG 400 SOCIAL SCIENCE: TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status required 3	LIBERAL ARTS ELECTIVE 3	15
	SPRING	IENG 475 INDUSTRIAL ENGINEERING DESIGN I 3			INDUSTRIAL ENGINEERING ELECTIVE** 3	STEM ELECTIVE Select from any PHYS, MATH or courses offered by CoECS. 3	ICXX 3XX* SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 3	ICXX 3XX* SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161 3	15
CREDITS									123

*Three seminar courses must be chosen from 4 subject areas, ICLT, ICPH, ICBS and ICSS, of which ICLT, ICPH and ICBS may be duplicated.

**Select from IENG 3XX, IENG 4XX, IENG 5XX, ENGY 6XX, ENGY 711 or others approved by dept. chairperson

*Elective may be advanced level mathematics and engineering courses, such as MENG 211, MENG 321, MATH 180, MATH 260, MATH 310, MATH 320 or other approved by chair.

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