

YEAR TERM		MAJOR					GENERAL EDUCATION		TOTAL CR.	
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY 2			MATH 170 CALCULUS I 4 Pre-Req: Placement Exam, MATH 141 or MATH 136	PHYS 170 GENERAL PHYSICS I 4 Co-Req: MATH 170	CHEM 107 ENGINEERING CHEMISTRY I 4 Pre-Req: MATH 135 or MATH 141	FCWR 101/111 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement	17	
	SPRING		MENG 105 ENGINEERING GRAPHICS 1	MENG 201 ENGINEERING PROGRAMMING 3 Co-Req: MATH 161 or MATH 170	MATH 180 CALCULUS II 4 Pre-Req: MATH 170	PHYS 180 GENERAL PHYSICS II 4 Pre-Req: PHYS 170 Co-Req: MATH 180		FCWR 151/161 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111	15	
YEAR 2	FALL			MENG 211 ENGINEERING MECHANICS I (Statics) 3 Pre-Req: PHYS 170, MATH 180	MATH 260 CALCULUS III 4 Pre-Req: MATH 180	PHYS 225 INTRODUCTION OF MODERN PHYSICS 3 Pre-Req: PHYS 180		FCWR 304 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151/161	DATA 101 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY	16
	SPRING	MENG 270 1 INSTRUMENTATION AND MEASUREMENT Pre-Req: PHYS 170	MENG 221 3 STRENGTH OF MATERIALS Pre-Req: MENG 211 & MATH 180	MENG 212 3 ENGINEERING MECHANICS II Pre-Req: MENG 211 Co-Req: MATH 260	MATH 320 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	MENG 240 3 THERMODYNAMICS Pre-Req: PHYS 225, CHEM 107		ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161		16
YEAR 3	FALL	MENG 370 3 MACHINE DESIGN Pre-Req: MENG 221	MENG 340 3 FLUID MECHANICS Pre-Req: MENG 240	MENG 321 3 INTRO TO COMPUTER AIDED DESIGN Pre-Req: MENG 105	MENG 310 3 INTRODUCTION TO MATERIAL SCIENCE Pre-Req: CHEM 107 or CHEM 110	IENG 240 3 ENGINEERING ECONOMICS Pre-Req: MATH 136 or MATH 141 or higher math				15
	SPRING	AENG 420 3 HIGH SPEED FLOWS & SHOCK WAVES Pre-Req: MENG 240, MENG 340	MENG 324 3 VIBRATIONS AND SYSTEM Pre-Req: MENG 201, MENG 212, MATH 320	MENG 349 3 HEAT TRANSFER Pre-Req: MENG 240 and MATH 320	EENG 211 3 ELECTRICAL CIRCUITS Pre-Req: MATH 170 and PHYS 170 Co-Req: MATH 180 and PHYS 180	MENG 343 1 THERMOFLUID LABORATORIES Pre-Req: MENG 340 and MENG 240	STEM ELECTIVE 3 MATH/PHYS 300 or 400 level or CoECS 300 level or above			16
YEAR 4	FALL	AENG 490 4 FLIGHT VEHICLE DESIGN Pre-Req: MENG 340		AENG 410 3 AERODYNAMICS Pre-Req: MENG 340 and MATH 320	IENG 245 3 STATISTICAL DESIGN I Pre-Req: MATH 161 or MATH 170	EENG 275 1 ELECTRONICS LAB Pre-Req: EENG 211 or EENG 212 and FCWR 101	LIBERAL ARTS ELECTIVE 3	ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161		17
	SPRING	MENG 438 3 ENGINEERING ANALYSIS Pre-Req: MENG 201 and MATH 320		MENG 470 4 SENIOR MECHANICAL ENGINEERING DESIGN Department Approval Required	AENG 463 3 PROPULSION Pre-Req: MENG 340			ICXX 3XX* 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS) Pre-Req: FCWR 151/161	IENG 400 3 TECHNOLOGY AND GLOBAL ISSUES Requires Junior/Senior Status	16

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\*Of the three required ICXX seminar course options (ICBS, ICLT, ICPH, ICSS), students must take three seminar courses from three different areas of study.

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

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

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