

YEAR TERM		MAJOR					CORE		TOTAL CR.	
YEAR 1	FALL	ETCS 105 CAREER DISCOVERY			MATH 170 CALCULUS I Pre-Req: Placement exam , MATH 141, TMAT 155 or MATH 136	PHYS 170 GENERAL PHYSICS I Co-Req: MATH 170		FCWR 101 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement	FCIQ 101 FOUNDATIONS OF INQUIRY	16
	SPRING			CHEM 107 ENGINEERING CHEMISTRY I Pre-Req: TMAT 135 or MATH 135	MATH 180 CALCULUS II Pre-Req: MATH 170	PHYS 180 GENERAL PHYSICS II Pre-Req: PHYS 170 Co-Req: MATH 180		FCWR 151 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101	FCSC 101 FOUNDATIONS OF SCIENTIFIC PROCESS	18
YEAR 2	FALL	MENG 201 ENGINEERING PROGRAMMING	MENG 105 ENGINEERING GRAPHICS	MENG 211 ENGINEERING MECHANICS I (Statics) Pre-Req: PHYS 170, MATH 180	MATH 260 CALCULUS III Pre-Req: MATH 180	PHYS 225 INTRODUCTION OF MODERN PHYSICS Pre-Req: PHYS 180			FCSP 105 FOUNDATIONS OF SPEECH COMMUNICATION Pre-Req: FCWR 101	17
	SPRING	MENG 270 INSTRUMENTATION AND MEASUREMENT Pre-Req: PHYS 170	MENG 221 STRENGTH OF MATERIALS Pre-Req: MENG 211 & MATH 180	MENG 212 ENGINEERING MECHANICS II Pre-Req: MENG 211 Co-Req: MATH 260	MATH 320 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	MENG 240 THERMODYNAMICS Pre-Req: PHYS 225, CHEM 107		FCWR 304 COMMUNICATION FOR TECHNICAL PROFESSIONS**		16
YEAR 3	FALL	MENG 346 ENERGY CONVERSION Pre-Req: MENG 240	MENG 340 FLUID MECHANICS Pre-Req: MENG 240	MENG 321 INTRO TO COMPUTER AIDED DESIGN Pre-Req: MENG 105	EENG 211 ELECTRICAL CIRCUITS Pre-Req: MATH 170, PHYS 170 Co-Req: MATH 180, PHYS 180	LIBERAL ARTS ELECTIVE				16
	SPRING	MENG 310 INTRODUCTION TO MATERIAL SCIENCE Pre-Req: CHEM 107 OR CHEM 110	MENG 370 MACHINE DESIGN Pre-Req: MENG 221	MENG 324 VIBRATIONS AND SYSTEM Pre-Req: MENG 212, MATH 320	MENG 349 HEAT TRANSFER Pre-Req: MENG 240, MATH 320	IENG 240 ENGINEERING ECONOMICS Pre-Req: MATH 141, TMAT 155 or MATH 136	EENG 275 ELECTRONICS LAB Pre-Req: EENG 211 and FCWR 101			16
YEAR 4	FALL	MENG 438 ENGINEERING ANALYSIS Pre-Req: MENG 201 and MATH 320	MENG 320 OR 343 Pre-Req: MENG 310, MENG 221 OR MENG 340, MENG 240		DESIGN ELECTIVE	IENG 245 STATISTICAL DESIGN I Pre-Req: MATH 170 OR 235		ICSS 309*** SOCIAL SCIENCE: TECHNOLOGY AND GLOBAL ISSUES	ICPH 3XX** PHILOSOPHY CHOICE	17
	SPRING	MENG 470 SENIOR MECH.ENGINEERING DESIGN *Chairperson approval		MECHANICAL ENGINEERING ELECTIVE	DESIGN ELECTIVE			ICBS 3XX** BEHAVIORAL SCIENCE CHOICE	ICLT 3XX** LITERATURE CHOICE	17

CREDITS 133

\*Mechanical Engineering Elective Options: Select 3 credits from non-required AENG, IENG, MENG or graduate MENG courses with Chairperson Approval.

\*\*Pre-Req: FCIQ 101, FCSP 105, FCSC 101, FCWR 151

+ICSS 309 is cross-listed with IENG 400

DESIGN ELECTIVES (PICK 8 CREDITS FROM THE FOLLOWING)

COURSE	CREDITS	PRE-REQUISITES
AENG 490	4	MENG 340
MENG 486	4	MENG 370, MENG 212
MENG 446	4	MENG 340, MENG 240, Co-Req: MENG 349
MENG 443	4	MENG 340 and MENG 349 (formerly MENG 240)

(Rev 4/17)

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