

YEAR TERM		MAJOR COURSES					CORE & GENERAL ELECTIVE			TOTAL CREDITS
YEAR 1	FALL	<b>CHEM 110</b> 4 GENERAL CHEMISTRY I Co-Req: MATH 135 or higher	<b>BIOL 110</b> 4 GENERAL BIOLOGY I		<b>MATH 170</b> 4 CALCULUS I Pre-Req: Placement Exam, MATH 141, MATH 136 or TMAT 155	<b>ETCS 105</b> 2 CAREER DISCOVERY	<b>FCWR 101*</b> 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100			17
	SPRING	<b>CHEM 150</b> 4 GENERAL CHEMISTRY II Pre-Req: CHEM 110	<b>BIOL 150</b> 4 GENERAL BIOLOGY II Pre-Req: BIOL 110		<b>MATH 180</b> 4 CALCULUS II Pre-Req: MATH 170	<b>PHYS 170</b> 4 GENERAL PHYSICS I Co-Req: MATH 170				16
YEAR 2	FALL	<b>CHEM 210</b> 4 ORGANIC CHEMISTRY I Pre-Req: CHEM 150		<b>EENG 125</b> 3 FUNDAMENTALS OF DIGITAL LOGIC	<b>MATH 260</b> 4 CALCULUS III Pre-Req: MATH 180	<b>PHYS 180</b> 4 GENERAL PHYSICS II Pre-Req: PHYS 170 Co-Req: MATH 180	<b>FCWR 151*</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101			18
	SPRING	<b>BIOL 340</b> 4 BIOCHEMISTRY Pre-Req: BIOL 150 and CHEM 250 Note: CHEM 250 pre-req waived with dept. approval		<b>EENG 211</b> 3 ELECTRICAL CIRCUITS I Pre-Req: MATH 170 & PHYS 170; Co-Req: MATH 180 & PHYS 180	<b>MATH 320</b> 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260	<b>PHYS 225</b> 3 INTRODUCTION TO MODERN PHYSICS Pre-Req: PHYS 180	<b>FCWR 304</b> 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151			16
YEAR 3	FALL	<b>CSCI 125 or MENG 201</b> 3 COMPUTER PROGRAMMING I Co-Req: MATH 136 or MATH 141 or higher or ENGINEERING PROGRAMMING	<b>EENG 270</b> 3 INTRODUCTION TO ELECTRONICS CIRCUITS Pre-Req: EENG 211 or EENG 212	<b>EENG 275</b> 1 ELECTRONICS LAB Pre-Req: EENG 211 OR EENG 212 OR EENG 221 AND FCWR 101 OR FCWR 111	<b>CSCI 155</b> 3 COMPUTER ORGANIZATION AND ARCHIECTURE Pre-Req: CSCI 125, CSCI 135 OR EENG 125 AND MATH 161 OR MATH 170	<b>BIOL/PHYS 365</b> 3/4 BIOMEDICAL PHYSICS or <b>CHEM 410</b> PHYSICAL CHEMISTRY	<b>FCSP 105</b> 3 FOUNDATIONS OF SPEECH COMMUNICATION			16/17
	SPRING	<b>BIOL 335</b> 4 GENETICS Pre-Req: BIOL 150 and CHEM 210 or <b>BIOL 431</b> CELL BIOLOGY Pre-Req: BIOL 340	<b>BIOL 210</b> 4 HUMAN GROSS ANATOMY or <b>BIOL 220</b> COMP. ANATOMY	<b>EENG 371 **</b> 3 MICROPROCESSORS Pre-Req: EENG 310, and either EENG 125 or CSCI 130				<b>FCIQ 101</b> 3 FOUNDATIONS OF INQUIRY	<b>FCSC 101</b> 3 FOUNDATIONS OF SCIENTIFIC PROCESS	
YEAR 4	FALL	<b>MENG 321</b> 3 INTRO TO COMPUTER AIDED DESIGN MENG 105 pre-req can be waived with departmental approval.	<b>BIOL 310</b> 4 HUMAN PHYSIOLOGY or <b>BIOL 311</b> COMPAR. PHYSIOLOGY Pre-Req: BIOL 150			<b>EENG 489</b> 2 SENIOR DESIGN PROJECT I Requires instructor and/or department approval.	<b>ICBS 3XX</b> 3 BEHAVIORAL SCIENCE CHOICE Pre-Req: FWR 151, FCIQ 101, FCSC 101, AND FCSP 105	<b>ICLT 3XX</b> 3 LITERATURE CHOICE Pre-Req: FWR 151, FCIQ 101, FCSC 101, AND FCSP 105		15
	SPRING	<b>EENG 419 **</b> 3 MEDICAL DEVICES or <b>EENG/BIOL/CHEM ELECTIVE</b>			<b>IENG 245</b> 3/4 STAT. DESIGN I <b>CHEM 310</b> QANT. ANALYSIS <b>MATH 235</b> APPLIED STATS	<b>EENG 491</b> 2 SENIOR DESIGN PROJECT II Requires instructor and/or department approval.	<b>ICSS 3XX</b> 3 SOCIAL SCIENCES CHOICE Pre-Req: FWR 151, FCIQ 101, FCSC 101, AND FCSP 105	<b>ICPH 3XX</b> 3 PHILOSOPHY CHOICE Pre-Req: FWR 151, FCIQ 101, FCSC 101, AND FCSP 105	<b>GENERAL ELECTIVE</b> 3	17/18
<b>CREDITS</b>										<b>132-134</b>

\*Non-native English speakers take FCWR 111 instead of FCWR 101, and FCWR 161 instead of FCWR 151

\*\*EENG 310 pre-req waived with instructor and/or department approval.

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

(Rev. 5/19)