

YEAR TERM		MAJOR					CORE				TOTAL CREDITS
YEAR 1	FALL		<b>ETEC 110</b> 4 ELECTRICAL TECHNOLOGY I Co-Req: TMAT 135 or MATH 135		<b>MATH 135</b> 4 FUNDAMENTALS OF PRECALCULUS I Pre-Req: Placement Exam or MATH 101		<b>FCWR 101*</b> 3 FOUNDATIONS OF COLLEGE COMP. Pre-Req: Placement or WRIT 100	<b>FCIQ 101</b> 3 FOUNDATIONS OF INQUIRY	<b>FCSC 101</b> 3 FOUNDATIONS OF SCIENTIFIC PROCESS		17
	SPRING	<b>ETCS 105</b> 2 CAREER DISCOVERY	<b>ETEC 120</b> 4 ELECTRICAL TECHNOLOGY II Pre-Req: ETEC 110; Co-Req: TMAT 155 or MATH 136	<b>ETEC 131</b> 4 ELECTRONICS TECHNOLOGY I Pre-Req: ETEC 110; Co-Req: ETEC 120	<b>MATH 136</b> 4 FUNDAMENTALS OF PRECALCULUS II Pre-Req: Placement Exam TMAT 135 or MATH 135		<b>FCWR 151*</b> 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101				17
YEAR 2	FALL	<b>CTEC 204</b> 3 PROGRAMMING TECHNIQUES I Pre-Req: TMAT 135, MATH 135 or MATH 141	<b>CTEC 216</b> 4 DIGITAL ELECTRONICS Pre-Req: ETEC 130 or ETEC 131	<b>ETEC 231</b> 4 ELECTRONICS TECHNOLOGY II Pre-Req: ETEC 131	<b>MATH 161</b> 3 BASIC APPLIED CALC. Pre-Req: Placement Exam, TMAT 155, MATH 136 or MATH 141	<b>PHYS 130</b> 3 INTRO PHYSICS Pre-Req: TMAT 135 or MATH 135					17
	SPRING	<b>CTEC 208</b> 3 PROGRAMMING TECHNIQUES II Pre-Req: CTEC 204 or CTEC 205	<b>CTEC 243</b> 3 APPLIED COMPUTATIONAL ANALYSIS I Pre-Req: MATH 161	<b>CTEC 241</b> 4 CIRCUIT DESIGN AND FABRICATION Pre-Req: ETEC 131, and CTEC 215 or CTEC 216		<b>PHYS 150</b> 3 INTRO PHYSICS II Pre-Req: PHYS 130			<b>FCSP 105</b> 3 FOUNDATIONS OF SPEECH COMMUNICATION		16
YEAR 3	FALL	<b>CTEC 235</b> 4 MICROCOMPUTERS I Pre-Req: ETEC 131 and CTEC 216	<b>CTEC 247</b> 3 APPLIED COMPUTATIONAL ANALYSIS II Pre-Req: CTEC 243	<b>ETEC 310</b> 4 COMMUNICATION CIRCUITS Pre-Req: ETEC 231 and MATH 161		<b>SCIENCE or LIBERAL ARTS ELECTIVE</b> 3 Consult faculty advisor	<b>FCWR 304</b> 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151				17
	SPRING	<b>CTEC 336</b> 4 EMBEDDED SYSTEMS & IOT Pre-Req: CTEC 206, CTEC 235	<b>CTEC 350</b> 3 MICRO-CONTROLLER BASED SYSTEMS Pre-Req: CTEC 235	<b>IENG 240</b> 3 ENGINEERING ECONOMICS Pre-Req: TMAT 155, MATH 136 or higher	<b>ETEC 325</b> 3 APPLIED STATISTICS Pre-Req: MATH 161, CTEC 243		<b>ICBS 3XX**</b> 3 BEHAVIORAL SCIENCE CHOICE				16
YEAR 4	FALL	<b>ETEC 495 /CTEC 495 3</b> SENIOR DESIGN/ COMP TECH SEMI. PROJECT Pre-Req: two courses from this group: CTEC 350 or CTEC 430 or CTEC 460 or ETEC 420 or ETEC 470		<b>IENG 251</b> 3 PROJECT ENGINEERING Pre-Req: MATH 160 or MATH 161 or MATH 170	<b>CTEC/ETEC ELECTIVE***</b> 3	<b>CTEC/ETEC ELECTIVE***</b> 3	<b>ICPH 3XX**</b> 3 PHILOSOPHY CHOICE				15
	SPRING	<b>ETEC 410</b> 4 CONTROL SYSTEMS TECHNOLOGY Pre-Req: CTEC 216 or CTEC 225, & ETEC 230 or ETEC 231, &CTEC 246 or CTEC 247			<b>CTEC/ETEC ELECTIVE***</b> 3	<b>LIBERAL ARTS ELECTIVE</b> 3 Consult faculty advisor	<b>ICLT 3XX**</b> 3 LITERATURE CHOICE		<b>ICSS 309/ IENG 400**+</b> 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status		16

CREDITS **131**

(REV: 6/2020)

***CTEC/ETEC Electives with Senior Status, Chairperson Approval (choose 9 credits from the following):					
COURSE	CREDITS	PRE-REQUISITES	COURSE	CREDITS	PRE-REQUISITES
CTEC 460	3	CTEC 235	ETEC 470	3	ETEC 231, PHYS 150
CTEC 471	3	CTEC 204 or CTEC 205	ETEC 490	3	Chairperson Approval
ETEC 240	3	ETEC 120	ETEC 491	3	Chairperson Approval
ETEC 420	3	ETEC 310	MTEC 210	3	CTEC 204
CTEC 430	3	CTEC 335			

\*Non-native English speakers should take FCWR 111 in lieu of FCWR 101 and FCWR 161 in lieu of FCWR 151.

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

+ICSS 309 is cross-listed with IENG 400

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