

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

CREDITS 128

| ***CTEC/ETEC Electives with Senior Status, Chairperson Approval (choose 9 credits from the following): | | | | | |
|--------------------------------------------------------------------------------------------------------|---------|----------------------|----------|---------|----------------------|
| COURSE | CREDITS | PRE-REQUISITES | COURSE | CREDITS | PRE-REQUISITES |
| CTEC 315 | 3 | CTEC 208 | ETEC 420 | 3 | ETEC 310 |
| CTEC 430 | 3 | CTEC 335/336 | ETEC 470 | 3 | ETEC 231, PHYS 150 |
| CTEC 460 | 3 | CTEC 235 | ETEC 490 | 3 | Chairperson Approval |
| CTEC 471 | 3 | CTEC 204 or CTEC 205 | ETEC 491 | 3 | Chairperson Approval |

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

**Pre-Req: FCWR 101, FCWR 151

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

Course names, numbers and/or pre-requisites are subject to change. (Rev. 4/22)