University of Iowa- College of Engineering & Iowa Central Community College



| | UI Course # | University of Iowa Course Title | SH | | | Iowa Central CC Course Title | SF | |
|-----------|-------------|---|----|----------|------------------------------|-------------------------------------|----|--|
| emester : | | controlly of lotter counce that | | | | | | |
| | MATH:1550 | Engineering Math I – Single Variable Calculus | 4 | | MAT 210 | Calculus I | 4 | |
| | | | | вотн | MAT 216 | Calculus II | 4 | |
| | ENGR:1100 | Introduction to Engineering Problem Solving | 3 | | No equivalent cou | No equivalent course offered | | |
| | CHEM:1110 | Principles of Chemistry I & Lab | 4 | | CHM 165 | General Chemistry I | | |
| Fall | RHET:1030 | Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required) | 4 | ALL | ENG 105 | Composition I | | |
| | | | | | ENG 106 | Composition II | | |
| | | | | | SPC 112 | Public Speaking | | |
| | ENGR:1000 | Engr Success for First-Year Students | 1* | | No equivalent course offered | | | |
| | | Total | 16 | | | | | |
| mester 2 | 2 | | | | | | | |
| | MATH:1560 | Engineering Math II: Multi-Variable Calculus | 4 | | MAT 219** | Calculus III | | |
| | MATH:2550 | Engineering Math III: Matrix Algebra | 2 | | No equivalent course offered | | | |
| | ENGR:1300 | Introduction to Engineering Computing | 3 | CHOOSE 1 | CIS 172 | Java | | |
| Spring | | | | CHOOSE I | CIS 162 | C++ | | |
| | PHYS:1611 | Introductory Physics I | 4 | | PHY 212 | Classical Physics I | | |
| | | General Education Component #1 | 3 | | | | | |
| | | Total | 16 | | | | | |
| mester 3 | 3 | _ | | | | | | |
| Fall | MATH:2560 | Engineering Math IV: Differential Equations | 3 | | MAT 226 | Differential Equations with Laplace | | |
| | PHYS:1612 | Introductory Physics II | 4 | | PHY 222 | Classical Physics II | | |
| | ENGR:2110 | Engineering Fundamentals I – Statics | 2 | | No equivalent course offered | | | |
| | ENGR:2120 | Engineering Fundamentals II: Electrical Circuits | 3 | | No equivalent course offered | | | |
| | ENGR:2130 | Engineering Fundamentals III: Thermodynamics | 3 | | No equivalent course offered | | | |
| | | Total | 15 | | | | | |
| mester 4 | | | | | | | | |
| Spring | MATH:3550 | Engineering Math V: Vector Calculus | 3 | | No equivalent course offered | | | |
| | ECE:2400 | Linear Systems I | 3 | | No equivalent course offered | | | |
| | ECE:2410 | Principles of Electronic Instrumentation | 4 | | No equivalent course offered | | | |
| | ENGR:2730 | Computers in Engineering | 3 | ļ | No equivalent cou | rse offered | | |
| | | General Education Component #2 | 3 | | | | | |
| | 1 | Total | 16 | I | I | | | |

| | UI Course # | University of Iowa Course Title | SH | | ICCC Course # Iowa Central CC Cour | rse Title SI |
|-----------|-------------|---|----|----------|------------------------------------|--------------|
| emester ! | 5 | , | | | | |
| | STAT:2020 | Probability and Stat for Engineering & Phys Sci | 3 | | No equivalent course offered | |
| | ECE:3320 | Intro to Digital Design | 3 | | No equivalent course offered | |
| | CS:2210 | Discrete Structures | 3 | CHOOSE 1 | MAT 150 Discrete Math | 3 |
| Fall | C3.2210 | Discrete structures | 3 | CHOO3L 1 | CIS 153 Data Structures | 4 |
| | ECE:3330 | Introduction to Software Design | 3 | | No equivalent course offered | |
| | ECE:3700 | Electromagnetic Theory | 3 | | No equivalent course offered | |
| | ECE:3000 | Professional Seminar: Electrical Engineering | 1 | | No equivalent course offered | |
| | | Total | 16 | | | |
| emester (| 6 | | | | | |
| Spring | CS:2230 | Computer Science II (EFA #1) | 3 | | No equivalent course offered | |
| | ECE:3350 | Computer Architecture and Organization | 3 | | No equivalent course offered | |
| | ECE:3360 | Embedded Systems and System Software | 3 | | No equivalent course offered | |
| | | Elective Focus Area #2 | 3 | | | |
| | | Elective Focus Area #3 | 3 | | | |
| | | General Education Component #3 | 3 | | | |
| | | Total | 18 | | | |
| emester 7 | 7 | | | | | |
| Fall | ECE:4880 | Principles of Electrical Engineering Design | 3 | | No equivalent course offered | |
| | CS:3330 | Algorithms | 3 | | No equivalent course offered | |
| | | Elective Focus Area #4 | 3 | | | |
| | | Track Breadth Elective | 3 | | No equivalent course offered | |
| | | General Education Component #4 | 3 | | | |
| | | Total | 15 | | | |
| emester 8 | 8 | | | | | |
| | ECE:4890 | Senior Electrical Engineering Design | 3 | | No equivalent course offered | |
| Spring | | Track Depth Elective | 3 | | No equivalent course offered | |
| | | Elective Focus Area #5 | 3 | | | |
| | | Elective Focus Area #6 | 3 | | | |
| | | General Education Component #5 | 3 | | | |
| | | Total | 15 | | | |

2017-18 Curriculum updated June 2018

^{* 1}sh; does not count toward 128 sh total required for graduation

^{**}Students must have completed Calculus I, II, and III to receive credit for Engineering Math II