University of Iowa - College of Engineering & Kirkwood Communtiy College



College of Engineering

| | | Chemica | l F | ngineer | ring | 8 8 8 | | |
|---------|-------------|---|-----|----------|------------------------------|--|-----|--|
| | UI Course # | University of Iowa Course Title | SH | | KCC Course # | Kirkwood Course Title | SH | |
| Semeste | | | | | | | | |
| | | Engineering Math I: Single Variable Calculus | 4 | DOTU | MAT 210 | Calculus I | 4 | |
| | Math 1550 | | | вотн і | MAT 216 | Calculus II | 4 | |
| | ENGR:1100 | Engineering Problem Solving I | 3 | | EGR 160 | Engineering I | 3 | |
| | CHEM:1110 | Principles of Chemistry I | 4 | | CHM 165 | General Chemistry I | 4 | |
| Fall | RHET:1030 | Rhetoric (Choose one in each section: Writing Component 1, Writing Component 2, Speech Component) | 4 | | ENG 105 | Composition I (Writing Component I) | 3 | |
| | | | | CHOOSE 1 | ENG 106 | Composition II (Writing Component II) | 3 | |
| | | | | | ENG 108 | Composition II: Tech (Writing Component II) | 3 | |
| | | | | | ENG 120 | College Writing (Writing Component II) | 5 | |
| | | | | CHOOSE 1 | SPC 101 | Fund. of Oral Comm. (Speech Component) | 3 | |
| | | | | | SPC 112 | Public Speaking (Speech Component) | 3 | |
| | ENGR:1000 | Engr Success for First Year Students | 1* | | No equivalent | No equivalent course offered | | |
| | | Total | 16 | | | | | |
| Semeste | er 2 | | | | | | | |
| | MATH:1560 | Engineering Math II: Multi-Variable Calculus | 4 | | MAT 219** | Calculus III | 4 | |
| | ENGR:1300 | Engineering Problem Solving II | 3 | CHOOSE 1 | CIS 171 | Java Programming I | 3 | |
| | | | | | CIS 175 | Java Programming II | 3 | |
| | | | | | EGR 167 | Engineering II | 4 | |
| Spring | | | | | CSC 142 | Computer Science | 4 | |
| | PHYS:1611 | Introductory Physics I | 4 | | PHY 212 | Classical Physics I | 5 | |
| | MATH:2550 | Engineering Math III: Matrix Algebra | 2 | | MAT 149 | Linear Algebra | 3 | |
| | CHEM:1120 | Principles of Chemistry II | 4 | | CHM 175 | General Chemistry II | 4 | |
| | CBE:1000 | CBE Departmental Seminar | 1 | | No equivalent course offered | | | |
| | | Total | 18 | | | | | |
| Semeste | er 3 | | | | | | | |
| | MATH:2560 | Engineering Math IV: Diff.Equations | 3 | | MAT 227 | Differential Equations/LaPlace | 4 | |
| | | General Education Component course | 3 | | | | | |
| | ENGR:2110 | Engineering Fundamentals I:Statics | 2 | | EGR 180 | Statics | 3 | |
| Fall | ENGR:2130 | Engineering Fundamentals III: Thermodynamics | 3 | | EGR 290 | Thermodynamics | 3 | |
| | CHEM:2230 | Organic Chemistry I For Majors | 3 | | CHM 262 | Organic Chemistry I | 4.5 | |
| | P | | | | | - | | |
| | CBE:2105 | Process Calculations | 3 | | No equivalent | course offered | | |

| Semeste | er 4 | | | | | | |
|--------------|-----------|---|----|--|------------------------------|--|--|
| | CBE:3105 | ChE Thermodynamics | 3 | No equivalent course offered | No equivalent course offered | | |
| Spring | CBE:3109 | Fluid Flow | 2 | No equivalent course offered | | | |
| | CHEM:2240 | Organics Chemistry II for Majors | 3 | CHM 272 Organic Chemistry II | 4.5 | | |
| | CHEM:2420 | Organic Chemistry Lab for Majors | 3 | Satisfied by CHM 262 & CHM 272 | | | |
| | STAT:2020 | Statistic Elective: Prob & Stats for Engr & Phys Sci | 3 | No equivalent course offered | | | |
| | CBE:3000 | CBE Professional Seminar | 1 | No equivalent course offered | | | |
| | | General Education Component course | 3 | | | | |
| | | Total | 18 | | | | |
| Semeste | er 5 | | | | | | |
| | CBE:3113 | Heat & Mass Transfer | 3 | No equivalent course offered | | | |
| | CBE:3125 | Chemical Process Safety | 3 | No equivalent course offered | | | |
| | CBE:3117 | Separations | 3 | | | | |
| | ENGR:2720 | Material Science | 3 | EGR 170 Material Science | 3 | | |
| Fall | ENR:2120 | Engineering Fundamentals II: Electrical Circuits | 3 | EGR 285 Introduction to Electrical Science | 4 | | |
| | CBE:3000 | CBE Professional Seminar | 1 | No equivalent course offered | No equivalent course offered | | |
| | | Total | 16 | | | | |
| Semeste | er 6 | | - | | | | |
| | CBE:3120 | Chemical Reaction Engineering | 3 | No equivalent course offered | No equivalent course offered | | |
| | CBE:3155 | Chemical Reaction Engineering/Separation | | No equivalent course offered | | | |
| Carrier | CBE:5205 | Intro to Biochemical Engineering | 3 | | | | |
| Spring | | Elective focus area course | 3 | No equivalent course offered | | | |
| | | General Education Component course | 3 | | | | |
| | CBE:3000 | CBE Professional Seminar | 1 | No equivalent course offered | | | |
| | | Total | 16 | | | | |
| Semeste | er 7 | | | | | | |
| | CBE:4105 | Process Dynamics & Control | 3 | No equivalent course offered | | | |
| | CBE:4109 | Chemical Engineering Process Design I | 2 | No equivalent course offered | | | |
| 5 -11 | CBE:3105 | Thermodynamics/Transport Laboratory | 3 | No equivalent course offered | | | |
| Fall | | Advanced Chemistry Elective | 3 | No equivalent course offered | | | |
| | | Elective focus area course | 3 | | | | |
| | | Elective focus area course | 3 | | | | |
| | CBE:3000 | CBE:Professional Seminar | 1 | No equivalent course offered | No equivalent course offered | | |
| | | Total | 18 | | | | |
| Semeste | er 8 | | | | | | |
| | CBE:4110 | Chemical Engineering Process Design II | 3 | No equivalent course offered | No equivalent course offered | | |
| Spring | | Advanced Science Elective | 3 | No equivalent course offered | | | |
| | | Elective focus area course | 3 | | | | |
| | | Constal Education Component course | 3 | | | | |
| | | General Education Component course | 5 | | | | |
| | | General Education Component course General Education Component course | 3 | | | | |
| | CBE:4195 | General Education Component course Senior Enriching Activities Seminar | | No equivalent course offered | | | |

2017-2021 Curriculum

* 1sh; 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

updated May 2018