



COLLEGE OF ENGINEERING – TRANSFER GUIDE

IOWA WESTERN COMMUNITY COLLEGE

Course work completed at a regionally **accredited college** will transfer when it is approximately equivalent to required course work at U of I. Transfer courses must have a grade of "C-" or above to be applied toward degree. Please have an official transcript sent to: The University of Iowa, Department of Admissions, 107 Calvin Hall, Iowa City, IA 52242 when you have completed the course.

CORE ENGINEERING CURRICULA AND EQUIVALENTS

| The University of Iowa Course | UI Sem Hrs | IA Western CC Equivalent | IWCC Sem Hrs |
|---|------------|--|------------------|
| RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree) | 4 | ENG 105 English Composition I ENG 106 English Composition II SPC 112 Public Speaking | 3 3 3 |
| CHEM:1110 Principles of Chemistry I | 4 | CHM 166 General Chemistry I | 5 |
| PHYS:1611 Introductory Physics I | 4 | PHY 210 Classical Physics I AND PHY 211 Classical Physics I Lab | 4 1 |
| PHYS:1612 Introductory Physics II | 4 | PHY 220 Classical Physics II AND PHY 221 Classical Physics II Lab | 4 1 |
| MATH:1550 Eng. Math I – Single Variable Calculus*** | 4 | MAT 211 Calculus I AND MAT 217 Calculus II | 5 5 |
| MATH:1560 Eng. Math II – Multiple Variable Calculus*** | 4 | MAT 220 Calculus III | 5 |
| MATH:2560 Eng. Math IV – Differential Equations | 3 | MAT 227 Elementary Differential Equations | 4 |
| ENGR:1300 Engineering Problem Solving II | 3 | CIS 171 Java CIS 175 Java II CIS 161 C++ Programming CIS 164 Advanced C++ | 3 3 3 3 |

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

The following courses **may be required** depending upon the major selected: *Biomedical* and *chemical* majors require a year of college-level chemistry. *Industrial* engineering majors require an introductory psychology course.

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| CHEM:1120 Principles of Chemistry II | 4 | CHM 176 General Chemistry II | 5 |
| CHEM:2210 Organic Chemistry I | 3 | CHM 263 Organic Chemistry I | 5 |
| CHEM:2220 Organic Chemistry II | 3 | CHM 273 Organic Chemistry II | 5 |
| CHEM:2410 Organic Chemistry Lab | 3 | (excess hrs from CHM 263 & 273 fulfill requirements for CHEM:2410) | |

GENERAL EDUCATION COMPONENT (GEC)

Students must earn at least 15 semester hours of approved course credit. The requirements are the following: Complete 3 s.h. of an Engineering Be Creative class, 3 s.h. from one of the approved CLAS GEC categories, and 9 s.h. of Approved Course Subjects. For a list of all approved courses go to <https://www.engineering.uiowa.edu/general-education-component-starting-summer-2015>.

TRANSFER ADMISSIONS REQUIREMENTS

The College of Engineering is looking for an overall GPA that indicates likely success in engineering. To transfer into the College of Engineering, students must have demonstrated success in math, science and engineering courses (grades of A's and B's in these foundation subjects with no grade lower than a C). At a minimum, transfer students must have completed Calculus I and the equivalent of either Iowa's Principles of Chemistry I or Introductory Physics I (e.g. the first semester of Chemistry designed for majors or the first semester of Calculus-based Physics). Students may transfer into engineering upon the successful completion of the Calculus and Chemistry or Physics; it is not necessary to have 24 hours earned.

ADDITIONAL INFORMATION

The University of Iowa College of Engineering
2134 Seamans Center Iowa City, IA 52242
Phone: (319) 335-5763 or (800) 553-4692
Email: engineering-admissions@uiowa.edu

Iowa Western Community College
2700 College Rd., Box4-C, Council Bluffs, IA 51502
Phone (712)325-3200 or (800) 432-5852
www.iwcc.cc.ia.us