



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## ELGIN 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	ECC College Equivalent	ECC Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG:101 English Composition I <b>AND</b> ENG:102 English Composition II <b>AND</b> CMS:101 Fundamentals of Speech <b>OR</b> CMS:102 Public Speaking	3 3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM:142 General Chemistry I	5
PHYS:1611 Introductory Physics I	4	PHY:211 Engineering Physics I	5
PHYS:1612 Introductory Physics II	4	PHY:212 Engineering Physics II	5
MATH:1550 Eng. Math I – Single Variable Calculus	4	MTH:190 Calculus with Analytic Geometry I <b>AND</b> MTH:210 Calculus with Analytic Geometry II	5 5
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MTH:230 Calculus with Analytic Geometry III	5
MATH:2550 Eng. Math III – Matrix Algebra	2	MTH:240 Introduction to Linear Algebra	4
MATH:2560 Eng. Math IV – Differential Equations	3	MTH:250 Differential Equations	4
ENGR:1300 Introduction to Engineering Computing	3	MTH:123 Computer Science for Engineers	4
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR:152 Statics	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.

CHEM:1120 Principles of Chemistry II	4	CHM:143 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHM:234 Organic Chemistry I	5
CHEM:2220 Organic Chemistry II	3	CHM:235 Organic Chemistry II	5
CHEM:2410 Organic Chemistry Lab	3	(excess hrs from CHM:234 & 235 fulfill CHEM:2410 requirements)	
ENGR:2710 Dynamics	3	EGR:252 Dynamics	3

### 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](mailto:engineering-admissions@uiowa.edu)

ECC –Elgin Community College  
1700 Spartan Drive Elgin, IL 60123  
Phone (847) 697-1000  
<http://www.elgin.edu/homepage.asp>