



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## MCHENRY COUNTY 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	McHenry County Equivalent	McHenry Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG 151 Composition I ENG 152 Composition II SPE 151 Introduction to Speech	3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM 165 General Chemistry I	5
PHYS:1611 Introductory Physics I	4	PHY 291 Principles of Physics I	4
PHYS:1612 Introductory Physics II	4	PHY 292 Principles of Physics II	4
MATH:1550 Eng. Math I – Single Variable Calculus***	4	MAT 175 Calculus & Analytical Geometry I <b>AND</b> MAT 245 Calculus & Analytical Geometry II	5 5
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MAT 255 Calculus and Analytical Geometry III	3
***Students must complete Calculus I, II, and III to receive credit for Engineering Math II.			
MATH:2550 Eng. Math III – Matrix Algebra	2	MAT 253 Linear Algebra	4
MATH:2560 Eng. Math IV – Differential Equations	3	MAT 260 Differential Equations	3
ENGR:1100 Engineering Problem Solving I	3	EGR 151 Graphics I	4
ENGR:1300 Engineering Problem Solving II	3	CIS 148 Introduction to Java Programming	3
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 251 Statics	3
ENGR:2120 Engineering Fundamentals II - Circuits	3	EGR 260 Electrical Circuits Analysis	4

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 166 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHM 265 Organic Chemistry I	5
CHEM:2220 Organic Chemistry II	3	CHM 266 Organic Chemistry II	5
CHEM:2410 Organic Chemistry Lab	3	(excess hrs from CHM 265 & 266 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@uiowa.edu](mailto:engineering@uiowa.edu)

McHenry County College  
8900 US Highway 14 Crystal Lakes, IL 60012  
Phone: (815) 455-3700  
<http://www.mchenry.edu/>