



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## HARPER 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	Harper College Equivalent	Harper Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG 101 Composition ENG102 Composition SPE 101 Fund of Speech Comm	3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM 121 General Chemistry I	5
PHYS:1611 Introductory Physics I	4	PHY 201 General Physics I – Mechanics	5
PHYS:1612 Introductory Physics II	4	PHY 202 General Physics II – Electricity & Magnetism	5
MATH:1550 Eng. Math I – Single Variable Calculus***	4	MTH 200 Calculus I <b>AND</b> MTH 201 Calculus II	5 5
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MTH 202 Calculus III	5

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

MATH:2550 Eng. Math III – Matrix Algebra	2	MTH 203 Linear Algebra	4
MATH:2560 Eng. Math IV – Differential Equations	3	MTH 212 Differential Equations	3
ENGR:1100 Introduction to Engineering Problem Solving	3	EGR 120 Engineering Graphics I (CAD)	4
ENGR:1300 Introduction to Engineering Computing	3	CSC 121 Computer Science I	4
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 210 Analytical Mechanics - Statics	3
ENGR:2120 Engineering Fundamentals II - Electrical Circuits	3	EGR 260 Intro to Circuit Analysis	4
ENGR:2130 Engineering Fundamentals III- Thermodynamics	3	EGR 240 Thermodynamics	3

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 122 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHM 204 Organic Chemistry I	5
CHEM:2220 Organic Chemistry II	3	CHM 205 Organic Chemistry II	5
CHEM:2410 Organic Chemistry Lab	3	Requirements fulfilled by excess hrs form CHM 204 & 205	
ENGR:2710 Dynamics	3	EGR 211 Analytical Mechanics - Dynamics	3
ENGR:2720 Mechanics of Deformable Bodies	4	EGR 212 Mechanics of Solids	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)

Harper College  
Academic Advising & Counseling Center  
1200 W. Algonquin Rd. Palatine, IL 60067-7398  
847/925-6393 [www.harpercollege.edu](http://www.harpercollege.edu)