



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## COLLEGE OF LAKE COUNTY

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	Lake County Equivalent	LC Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG 120 Technical Composition I <b>OR</b> ENG 121 English Composition I ENG 122 English Composition II <b>OR</b> ENG 126 Advanced Composition CMM 121 Fundamentals of Speech	3 3 3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM 121 General Chemistry I	5
PHYS:1611 Introductory Physics I * <b>AND</b>	4	PHY 123 Physics for Science and Engineering I <b>AND</b>	5
PHYS:1612 Introductory Physics II *	4	PHY 124 Physics for Science and Engineering II <b>AND</b> PHY 221 Physics for Science and Engineering III	5 4
<b>*Students must complete Physics for Science and Engineering I, II and III to receive credit for Introductory Physics I &amp; II</b>			
MATH:1550 Eng. Math I – Single Variable Calculus***	4	MTH 145 Calculus with Analytical Geometry I <b>AND</b> MTH 146 Calculus with Analytical Geometry II	4 4
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MTH 246 Calculus with Analytical Geometry III	4
<b>***Students must complete Calculus I, II, and III to receive credit for Engineering Math II.</b>			
MATH:2550 Eng. Math III – Matrix Algebra	2	MTH 225 Introduction to Linear Algebra	3
MATH:2560 Eng. Math IV – Differential Equations	3	MTH 227 Ordinary Differential Equations	3
ENGR:1100 Engineering Problem Solving I	3	EGR 121 Engineering Graphics	3
ENGR:1300 Engineering Problem Solving II	3	MCS 140 Computer Programing Engineering and Science	3
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 125 Engineering Statics	3
ENGR:2120 Engineering Fundamentals II - Circuits	3	EGR 260 Introduction to Circuit 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 123 General Chemistry II	
CHEM:2210 Organic Chemistry I	3	CHM 222 Organic Chemistry I	
CHEM:2220 Organic Chemistry II	3	CHM 223 Organic Chemistry II	
CHEM:2410 Organic Chemistry Lab	3	(excess hrs from CHM 222 & 223 fulfill hrs for CHEM:2410)	
ENGR:2710 Dynamics	3	EGR 225 Engineering Dynamics	
ENGR:2720 Mechanics of Deformable Bodies	4	EGR 222 Engineering Mechanical Materials	

### 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)

College of Lake County  
19351 West Washington Street Grayslake, IL 60030  
(847) 543-2000  
[www.clcillinois.edu](http://www.clcillinois.edu)