



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## KIRKWOOD 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	Kirkwood CC Equivalent	KCC Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG 105 Composition I ENG 106 Composition II SPC 101 Fundamentals of Oral Communication	3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM 165 General Chemistry I	4
PHYS:1611 Introductory Physics I	4	PHY 212 Classical Physics I	5
PHYS:1612 Introductory Physics II	4	PHY 222 Classical Physics II	5
MATH:1550 Eng. Math I – Single Variable Calculus	4	MAT 210 Calculus I AND MAT 216 Calculus II	4 4
MATH:1560 Eng. Math II – Multiple Variable Calculus	4	MAT 219 Calculus III	4
MATH:2550 Eng. Math III – Matrix Algebra	2	MAT 149 Linear Algebra	3
MATH:2560 Eng. Math IV – Differential Equations	3	MAT 227 Differential Equations/LaPlace	4
ENGR:1100 Engineering Problem Solving I	3	EGR 160 Engineering I	3
ENGR:1300 Engineering Problem Solving II	3	EGR 167 Engineering II CSC 142 Computer Science	4 4
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 180 Statics	3
ENGR:2120 Engineering Fundamentals II - Electrical Circuits	3	EGR 285 Introduction to Electrical Science	3
ENGR:2130 Engineering Fundamentals III- Thermodynamics	3	EGR 290 Thermodynamics	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.

BIOL:1411 Foundations of Biology	4	BIO 112 Biology I	4
CHEM:1120 Principles of Chemistry II	4	CHM 175 General Chemistry II	4
CHEM:2210 Organic Chemistry I	3	CHM 262 Organic Chemistry I	4.5
CHEM:2220 Organic Chemistry II	3	CHM 272 Organic Chemistry II	4.5
CHEM:2410 Organic Chemistry Lab	3	(excess hrs from CHM 262 & 272 fulfill requirements for CHEM:2410)	
ENGR:2710 Dynamics	3	EGR 280 Dynamics	3
ENGR:2720 Material Science	3	EGR 170 Material Science	3
ENGR:2750 Mechanics of Deformable Bodies	4	EGR 380 Mechanics of Deformable Bodies	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)

Kirkwood Community College  
Mario Meza, Coordinator, Pre-Engineering  
6301 Kirkwood Blvd. SW Cedar Rapids, IA 52406  
Phone: (319) 398-5489 or (800) 332-2055  
[www.kirkwood.cc.ia.us](http://www.kirkwood.cc.ia.us)