



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## JOLIET JUNIOR 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	JJC Equivalent	JJC Sem Hrs
RHET:1030 Rhetoric (4sh limit of rhetoric applies to degree)	4	ENG 101 Rhetoric I ENG102 Rhetoric II SPCH 101 Principles of Speech	3 3 3
CHEM:1110 Principles of Chemistry I	4	CHM 101	5
PHYS:1611 Introductory Physics I	4	PHYS 201	5
PHYS:1612 Introductory Physics II	4	PHYS 202	5
MATH:1550 Eng. Math I – Single Variable Calculus***	4	MATH 170 Calculus with Analytical Geometry I <b>AND</b> MATH 171 Calculus with Analytical Geometry I	5 4
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MATH 172 Calculus with Analytical Geometry I	4
MATH:2550 Eng. Math III – Matrix Algebra	2	MATH 210 Linear Algebra	3
MATH:2560 Eng. Math IV – Differential Equations	3	MATH 220 Differential Equations	3
ENGR:1100 Engineering Problem Solving I	3	EGR 102 Engineering Graphics	4
ENGR:1300 Engineering Problem Solving II	3	CIS 236 Programming in C <b>OR</b> CIS 261 Java programing	4 4
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 201 Analytical Mechanics - 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 102 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHM 209 Organic Chemistry I	5
CHEM:2220 Organic Chemistry II	3	CHM 210 Organic Chemistry II	5
CHEM:2410 Organic Chemistry Lab	3	(excess hrs from CHM 209 & 210 fulfill requirements for CHEM:2410)	
ENGR:2710 Dynamics	3	EGR 202 Analytical Mechanics - 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)

Joliet Junior College  
1215 Houbolt Road Joliet, IL 60431  
Phone: (815) 729-9020  
<http://www.jjc.edu/>