



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 ENG102 Rhetoric COMM 101 Principles of Speech Communication	3 3 3
CHEM:1110 Principles of Chemistry I	4	CHEM 101 General Chemistry I	5
PHYS:1611 Introductory Physics I	4	PHYS 201 Engineering Physics I	5
PHYS:1612 Introductory Physics II	4	PHYS 202 Engineering Physics II	5
MATH:1550 Eng. Math I – Single Variable Calculus***	4	MATH 170 Calculus with Analytic Geometry I AND MATH 171 Calculus with Analytic Geometry II	5 4
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MATH 172 Calculus with Analytic Geometry III	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 & Orthogonal Functions	3
ENGR:1100 Introduction to Engineering Problem Solving	3	EGR 102 Engineering Graphics	4
ENGR:1300 Introduction to Engineering Computing	3	CIS 236 Programming in C OR CIS 261 Java programming	4 4
ENGR:2110 Engineering Fundamentals I - Statics	2	EGR 201 Analytical Mechanics - Statics	3

***Students must complete Calculus I, II, and III to receive credit for Engineering Math I & 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	CHEM 102 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHEM 209 Organic Chemistry I	5
CHEM:2220 Organic Chemistry II	3	CHEM 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 s.h. in chosen from approved departments and programs. For a list of approved GEC courses go to GEC website link: <http://www.engineering.uiowa.edu/current-students/academic-support/advising/general-education-component>

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

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