



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## SOUTHWESTERN 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	SWCC College Equivalent	SWCC 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 166 General Chemistry I	5
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 <b>AND</b> MAT 216 Calculus II	4 4
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MAT 219 Calculus III	4
MATH:2560 Eng. Math IV – Differential Equations	3	MAT 225 Differential Equations	3
ENGR:1300 Engineering Problem Solving II	3	CIS 161 C++ <b>OR</b> CIS 171 Java	3 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	CHM 176 General Chemistry II	5
CHEM:2210 Organic Chemistry I	3	CHM 261 Organic Chemistry I	4
CHEM:2220 Organic Chemistry II	3	CHM 271 Organic Chemistry II	4
CHEM:2410 Organic Chemistry Lab	3	Excess hours from CHM 261/271 fulfill requirements. Short 1 s.h.	

### 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](mailto:engineering-admissions@uiowa.edu)

Southwestern Community College  
1501 W. Townline St.  
Creston, IA 50801-1098  
641-782-7081 or 800-247-4023  
FAX 641-782-3312  
[www.swcc.cc.ia.us](http://www.swcc.cc.ia.us)