



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## IOWA LAKES COMMUNITY COLLEGE – *Electrical Engineering*

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	Iowa Lakes CC Equivalent	ILCC 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 SPC 112 Public Speaking	3 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 211 Calculus I <b>AND</b> MAT 217 Calculus II	5 5
MATH:1560 Eng. Math II – Multiple Variable Calculus***	4	MAT 218 Calculus III	3
MATH:2560 Eng. Math IV – Differential Equations	3	MAT 227 Differential Equations	3
ENGR:1300 Engineering Problem Solving II	3	CIS 161 C++ CIS 162 C++ CIS 171 Java	3 4 3
ENGR:2110 Engineering Fundamentals I - Statics	2	EGT 139 Statics Engineering	3

\*\*\*Students must have completed Calculus I, II, and III to receive credit for Engineering Math II.

### ELECTIVE FOCUS AREA

Five of the following courses may apply towards an Elective Focus Area in Electrical Engineering

EFA Elective	3	WTT 103 Introduction to Wind Energy	3
EFA Elective	3	WTT 133 Wind Turbine Mechanical Systems	3
EFA Elective	3	WTT 216 Power Generation and Distribution	3
EFA Elective	3	WTT 126 Basic Hydraulics	3
EFA Elective	3	WTT 134 Electrical Motors & Generators	4
EFA Elective	3	WTT 225 Data Acquisition & Assessment	4
EFA Elective	3	WTT 235 Programmable Logic Control Systems	4
EFA Elective	3	WTT 204 Wind Turbine Siting	4
EFA Elective	3	MGMT 101 Principles of Management	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)

Iowa Lakes Community College  
Don Schouten, Pre-Engineering Advisor  
300 S 18<sup>th</sup> St. Estherville, IA 51334  
Phone: (712) 362-2604 or (800) 242-5106  
Fax: (712) 362-7649  
[www.ilcc.cc.ia.us](http://www.ilcc.cc.ia.us)