



# COLLEGE OF ENGINEERING – TRANSFER GUIDE

## BLACK HAWK 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<br>Hrs | Black Hawk College Equivalent |  | BHC Sem<br>Hrs |
|-------------------------------|---|---------------|-------------------------------|--|----------------|
| RHET:1030                     | Rhetoric<br>(4sh limit of rhetoric applies to degree) | 4             | ENG101                        | Composition I                                | 3              |
|                               |   |               | ENG102                        | Composition II                               | 3              |
|                               |   |               | Spec 101                      | Principles of Speech Communication           | 3              |
| CHEM:1110                     | Principles of Chemistry I                             | 4             | CHEM 101                      | General Chemistry I                          | 4              |
| PHYS:1611                     | Introductory Physics I                                | 4             | PHYS 201                      | General Physics I                            | 5              |
| PHYS:1612                     | Introductory Physics II                               | 4             | PHYS 202                      | General Physics II                           | 5              |
| MATH:1550                     | Eng. Math I – Single Variable Calculus ***            | 4             | MATH 124                      | Calculus I with Analytic Geometry <b>AND</b> | 4              |
|                               |   |               | MATH 225                      | Calculus II with Analytic Geometry           | 4              |
| MATH:1560                     | Eng. Math II – Multiple Variable Calculus***          | 4             | MATH 226                      | Calculus III with Analytic Geometry          | 5              |
| MATH:2550                     | Eng. Math III – Matrix Algebra                        | 2             | MATH 230                      | Linear Algebra                               | 3              |
| MATH:2560                     | Eng. Math IV – Differential Equations                 | 3             | MATH 235                      | Differential Equations                       | 3              |
| ENGR:1100                     | Introduction to Engineering Problem Solving           | 3             | GE 101                        | Engineering Graphics and Geometry            | 3              |
| ENGR:1300                     | Introduction to Engineering Computing                 | 3             | CS 101                        | Introduction to Structured Programming       | 3              |
| ENGR:2110                     | Engineering Fundamentals I - Statics                  | 2             | GE 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                      | 4 |
| CHEM:2210 | Organic Chemistry I            | 3 | CHEM 203   | Organic Chemistry I                       | 5 |
| CHEM:2220 | Organic Chemistry II           | 3 | CHEM 204   | Organic Chemistry II                      | 5 |
| CHEM:2410 | Organic Chemistry Lab          | 3 | (excess CHEM 203 & 204 hrs fulfill CHEM:2410 Lab requirements) |   |   |
| ENGR:2710 | Dynamics                       | 3 | GE 202   | Analytical Mechanics Dynamics             | 3 |
| ENGR:2750 | Mechanics of Deformable Bodies | 4 | GE 205   | Elementary Mechanics of Deformable Bodies | 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](mailto:engineering-admissions@uiowa.edu)

Black Hawk College  
6600 34th Ave. Moline, IL 61265  
Phone: (309) 796-5000 or (800) 334-1311 ext. 5164  
Web site: [www.bhc.edu](http://www.bhc.edu)