

ISU College of Engineering – Black Hawk College Transfer Plan

2016-2017 ISU Catalog; 2016-2017 Black Hawk College Catalog

Iowa State University College of Engineering Requirements

- Courses must be completed with a grade of “C” or better in order to be considered for transfer credits into the College of Engineering.
- All engineering students must successfully complete all “Basic Program” courses (listed below) before progressing to upper level engineering program course work (whether completed at original institution or after transferring)
- Students not adequately prepared for success in Calculus I may need to take courses in addition to those listed in the Basic Program. Some students may first need to successfully complete college algebra – Math 140 (BHC MATH 112) and/or college trigonometry/prep for calculus – Math 143 (BHC MATH 116 or 118).
- The College of Engineering requires two years of a single foreign language in high school – OR – an equivalent in college (typically two semesters).

Basic Program courses: required in ALL engineering degree programs at ISU

ISU Course	Cr		Black Hawk Course	Cr
CHEM 177 or 167	4	General Chemistry for Engineers	CHEM 101	4
ENGL 150	3	Critical Thinking and Communication	ENG 101	3
ENGL 250	3	WOVE Composition	ENG 102	3
ENGR 101	R	Engineering Orientation		
ENGR 160*	3	Engineering Problems		
LIB 160	1	Library Instruction		
MATH 165	4	Calculus I	MATH 124	4
MATH 166	4	Calculus II	MATH 225	4
PHYS 221	5	Classical Physics I	PHYS 201	5

*May also transfer for ABE 160, AerE 160, CE 160, ChE 160, CprE/EE 185, IE 148, ME 160 or SE 185

Additional courses required in specific engineering degree programs (majors) at ISU

(see abbreviation key below)

ISU Course	Engineering Major Requiring	Cr		Black Hawk	Cr
BIOL 211*	AE, CE(Envr)	3	Principles of Biology I	BIOL 105*	5
BIOL 212*	BSE	3	Principles of Biology II	BIOL 106*	5
CHEM 178/178L	AE, BSE, ChE, CE(Envr), MatE	4	General Chemistry II & Lab II	CHEM 102	4
CHEM 231	BSE (BE,FD), CE(Envr)	4	Elementary Organic Chemistry	CHEM 111	4
CHEM 331/333L	BSE(BR,Pre), ChE	3	Organic Chemistry I	CHEM 203	5
CHEM 332/334L	BSE(BR,Pre), ChE	3	Organic Chemistry II	CHEM 204	5
ENGR 170	AE, BSE, CE, ConE, ME	3	Engineering Graphics & Design	GE 101	3
E M 274	All <i>except</i> ChE, CprE, EE, SE	3	Engineering Statics	GE 201	3
E M 324	AerE, AE, BSE, CE, ConE, MatE, ME	3	Mechanics of Materials	GE 205	3
E M 345	AerE, AE(PM), CE, ME	3	Dynamics	GE 202	3
MATH 265	All <i>except</i> AE, BSE, SE	4	Calculus III	MATH 226	5
MATH 267	All	4	Elem. Diff. Eq's & Laplace Trans.	MATH 235	3
MATH 207	EE	3	Linear Algebra	MATH 230	3
PHYS 222	All <i>except</i> CE(Envr), SE	5	Classical Physics II	PHYS 202	5
SP CM 212	CE, IE, SE	3	Fundamentals of Public Speaking	SPEC 101	3

*Black Hawk BIOL 105 & BIOL 106 must both be completed in order to transfer as credit for ISU BIOL 211 and BIOL 212

Abbreviation	Major	Abbreviation	Major
AerE	Aerospace Engineering	CE	Civil Engineering
AE	Agricultural Engineering	Envr	Environmental option within CE
PM	Power and machinery option within AE	CprE	Computer Engineering
BSE	Biological Systems Engineering	ConE	Construction Engineering
BE	Bioenvironmental option within BSE	Mech	Mechanical option within ConE
BR	Biorenewable option within BSE	EE	Electrical Engineering
FD	Food Engineering option within BSE	IE	Industrial Engineering
Pre	Pre-professional/Pre-graduate option within BSE	MatE	Materials Engineering
ChE	Chemical Engineering	ME	Mechanical Engineering
		SE	Software Engineering

Social Science/Humanities/General Education Requirements

- Engineering degree programs require 12-15 credits in social sciences/humanities/general education. The list below offers course options that are accepted by all ISU engineering departments.
- Iowa State University requires each student to complete a “US Diversity” course (indicated below with ¹); and an “International Perspective” course (indicated below with ²).

**Social science/humanities/general education courses accepted
in all ISU engineering degree programs**

ISU Course	Cr		Black Hawk Course	Cr
ANTHR 201 ²	3	Introduction to Cultural Anthropology	ANTH 102	3
ECON 101	3	Principles of Microeconomics	ECON 222	3
ECON 102	3	Principles of Macroeconomics	ECON 221	3
ENGL 201	3	Introduction to Literature	ENG 190	3
HD FS 240 ¹	3	Children’s Literature	ENG 240	3
HIST 201 ²	3	Introduction to Western Civilization I	HIST 125	3
HIST 202 ²	3	Introduction to Western Civilization II	HIST 127	3
HIST 221	3	Survey of U.S History I	HIST 105	3
HIST 222	3	Survey of U.S History II	HIST 106	3
MUSIC 102 ²	3	Introduction to Music Listening	MUSC 113	3
PHIL 201	3	Introduction to Philosophy	PHIL 101	3
POL S 215	3	Introduction to American Government	POLS 122	3
PSYCH 101	3	Introduction to Psychology	PSYC 101	3
PSYCH 230	3	Developmental Psychology	PSYC 200 or 262	3
PSYCH 280	3	Social Psychology	PSYC 230	3
HD FS 276 ¹	3	Human Sexuality	PSYC 119	3
RELIG 205 ²	3	Introduction to World Religions	HIST 222	3
SOC 134	3	Introduction to Sociology	SOC 101	3
SOC 219	3	Sociology of Intimate Relationships	SOC 251	3
SOC 235 ¹	3	Social Problems and American Values	SOC 102	3

Please use this transfer plan as a guide as you confirm course choices with an academic adviser in your major of interest.

Additional transfer student resources are available at www.engineering.iastate.edu/transfer.