

ISU College of Engineering/Black Hawk College

Transfer Equivalency Guide

ISU: 2009-2011 Catalog/Black Hawk College: 2010-2011 Catalog

Basic Program courses Required by ALL Engineering Curricula

ISU	Cr		BHC	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	N/A	Engineering Orientation		
Engr 160*	3	Engineering Problems w/VisualBasic		
Lib 160	0.5	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 AerE 160/CE 160, IE 148, and/or EE/CprE/SE 185

NOTE: Students who are not adequately prepared may need to take courses in addition to those listed above. Typically, many students need Math 140 (MATH 112) and/or Math 141/142 (MATH 116/118) prior to taking a Calculus course.

Social Science Humanities/General Education Courses Accepted by ALL Engineering Departments

ISU	Credits		BHC	Credits
Anthr 201	3	Introduction to Cultural Anthropology ²	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
Hist 201	3	Introduction To Western Civilization I ²	HIST 125	3
Hist 202	3	Introduction To Western Civilization II ²	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	3	Introduction to Music Listening I ²	MUSC 153	3
Phil 201	3	Introduction to Philosophy	PHIL 101	3
Pol S 251	3	International Relations ²	POLS 271	3
Psych 101	3	Introduction to Psychology	PSYC 101	3
Psych 230	3	Developmental Psychology	PSYC 200	3
Psych 280	3	Social Psychology	PSYC 230	3
HD FS 276	3	Human Sexuality ¹	PSYC 219	3
Soc 134	3	Introduction to Sociology	SOC 101	3
Soc 219	3	Marriage and Family ¹	SOC 251	3

NOTE: A total of 12-21 credits needed, depending on engineering department.

All students need 1 US Diversity (denoted with 1).

All students need 1 International Perspective (denoted with 2).

Other Courses Required for SOME Engineering Curricula

ISU	Engr Major	Cr		BHC	Cr
Acct 284	ConE	3	Financial Accounting	ACCT 101	3
Biol 211	CE (Envr), AE (Envr)	3	Introductory Biology	BIOL 105	5
Biol 212	BSE	3	Principles of Biology II	BIOL 106	5
Chem 178/178L	ChE, CE (Envr), MatE	4	General Chemistry II & Lab II	CHEM 102	4
Chem 231/231L	BSE (BE, FE), CE (Envr)	4	Elem. Organic Chemistry	CHEM 111 or 202	4
Chem 331	BSE including lab (Pre, BR), ChE	3	Organic Chemistry I	CHEM 203	5
Chem 332	BSE including lab (Pre, BR), ChE	3	Organic Chemistry II	CHEM 204	5
Engr 170	AE, CE, ConE, MatE, ME	3	Engr. Graphics & Intro. to Design	GE 101	3
EM 274	AerE, AE, BSE, CE, ConE, IE, MatE, ME	3	Engineering Statics	GE 201	3
EM 345	AerE, CE, ME	3	Dynamics	GE 202	3
EM 324	AerE, AE, BSE, CE, ConE, MatE, ME	3	Mechanics of Materials	GE 205	3
Math 265	ALL but AE, BSE, SE	4	Calculus III	MATH 226	5
Phys 222	ALL but CE (Envr), SE	5	Classical Physics II	PHYS 202	5
Sp Cm 212	AE, CE, IE, SE	3	Fundamentals of Public Speaking	SPEC 101	3

Abbreviation

AerE

AE

P

Envr

BSE

Pre

BR

BE

FE

ChE

CE

Envr

CprE

ConE

EE

IE

MatE

ME

SE

Major

Aerospace Engineering

Agricultural Engineering

Power and Machinery Option within AE

Ag and Environmental Option within AE

Biological Engineering

Pre-Professional and Pre-Graduate Option within BSE

Biorenewable Option within BSE

Bioenvironmental Option within BSE

Food Engineering Option within BSE

Chemical Engineering

Civil Engineering

Environmental Option within CE

Computer Engineering

Construction Engineering

Electrical Engineering

Industrial Engineering

Materials Engineering

Mechanical Engineering

Software Engineering