

**ISU College of Engineering / Northwest Iowa Community College  
Transfer Equivalency Guide**

*ISU: 2009-2011 Catalog / Northwest Iowa Community College: 2008-2010 Catalog*

**Basic Program Courses Required by ALL Engineering Curricula**

ISU	Cr		NWICC	Cr
Chem 177 or 167	4	General Chemistry for Engineers	CHM 163	3
English 150	3	Critical Thinking and Communication	ENG 105	3
English 250	3	WOVE Composition	ENG 106 or ENG 108	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	MAT 210 or MAT 211	4
Math 166	4	Calculus II	MAT 216	4
Phys 221	5	Classical Physics I		

\*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 (MAT 121) and/or Math 141/142 (MAT 130) prior to taking a Calculus course.

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

ISU	Cr		NWICC	Cr
Anthr 201	3	Introduction to Cultural Anthropology	ANT 105	3
Econ 101	3	Principles of Microeconomics	ECN 130	3
Econ 102	3	Principles of Macroeconomics	ECN 120	3
Hist 201	3	Introduction to Western Civilization I	HIS 110	3
Hist 202	3	Introduction to Western Civilization II	HIS 111	3
Hist 221	3	Survey of United States History I	HIS 151	3
Hist 222	3	Survey of United States History II	HIS 152	3
Music 102	3	Introduction to Music Listening	MUS 100	3
Phil 201	3	Introduction to Philosophy	PHI 101	3
Pol S 215	3	Introduction to American Government	POL 111	3
Psych 101	3	Introduction to Psychology	PSY 111	3
Psych 230	3	Developmental Psychology	PSY 121	3
Psych 280	3	Social Psychology	PSY 251	3
HD FS 276	3	Human Sexuality	PSY 261	3
Soc 134	3	Introduction to Sociology	SOC 110	3
Soc 235	3	Social Problems	SOC 115	3

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

**Other Courses Required for SOME Engineering Curricula**

ISU	Engr Major	Cr		NWICC	Cr
Acct 284	ConE	3	Financial Accounting	ACC 131	4
Biol 101	CE (Envr)	3	Introductory Biology	BIO 102 or 105	3
Chem 177 Lab	ChE, CE, MatE	1	General Chemistry Lab I	CHM 164	1
Chem 178/178L	ChE, CE, MatE	3	General Chemistry II	CHM 173	3
Chem 231/231L	BSE(BE, FE), CE(Envr)	4	Elementary Organic Chemistry	CHM 132	4
Sp Cm 212	AE, CE, IE, SE	3	Fundamentals of Public Speaking	SPC 112	3