

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

ISU: 2009-2011 Catalog / Iowa Western Community College: 2008-2009 Catalog

Basic Program Courses Required by ALL Engineering Curricula

ISU	Cr		Iowa Western	Cr
Chem 177 or 167	4	General Chemistry for Engineers	CHM 166	4
English 150	3	Critical Thinking and Communication	ENG 105	3
English 250	3	WOVE Composition	ENG 106	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 211	5
Math 166	4	Calculus II	MAT 217	5
Phys 221	5	Classical Physics I	PHY 210 & 211	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 (MAT 121 or MAT129) and/or Math 141/142 (MAT 129 or MAT 130) prior to taking a Calculus course.

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

ISU	Cr		Iowa Western	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 U.S. History I	HIS 151	3
Hist 222	3	Survey of U.S. 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
Pol S 251	3	International Relations	POL 121	3
Psych 101	3	Introduction to Psychology	PSY 111	3
Psych 230	3	Developmental Psychology	PSY 121	3
HD FS 276	3	Human Sexuality	PSY 261	3
Psych 280	3	Social Psychology	PSY 251	3
Relig 205	3	Introduction to World Religions	REL 101	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		Iowa Western	Cr
Acct 284	ConE	3	Financial Accounting	ACC 121	3
Biol 101	CE - Environmental	3	Introductory Biology	BIO 105	4
Biol 212	BSE	3	Principles of Biology II	BIO 113	3
Chem 178/178L	Ch E, CE, MatE	3	General Chemistry II	CHM 176	5
Chem 331	BSE(including lab),Ch E	3	Organic Chemistry I	CHM 263	3
Chem 332	BSE(including lab)(Pre, BR),ChE	3	Organic Chemistry II	CHM 273	3
Math 265	ALL but AE, BSE, SE	4	Calculus III	MAT 220	5
Math 266	AE, CE, ConE (B, H)	3	Elementary Differential Equations	MAT 225	3
Math 267	ALL except those listed above	4	Elem. Diff. Eq's & Laplace Trans.	MAT 227	4
Micro 201	CE - Environmental	2	General Microbiology	BIO 186	3
Phys 222	ALL but CE -Envr, SE	5	Classical Physics II	PHY 220 & 221	5
Sp Cm 212	AE, CE, IE, SE	3	Fundamentals of Public Speaking	SPC 112	3