

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

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

Basic Program courses Required by ALL Engineering Curricula

ISU	Cr		ICCC	Cr
Chem 177 or 167	4	General Chemistry for Engineers	CHM 165	4
Engl 150	3	Critical Thinking and Communication	ENG 105	3
Engl 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	ENG 105	3
Math 165	4	Calculus I	MAT 210	4
Math 166	4	Calculus II	MAT 216	4
Phys 221	5	Classical Physics I	PHY 212	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 120) 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		ICCC	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	Intro. To Western Civilization I	HIS 112	4
Hist 202	3	Intro. To Western Civilization II	HIS 113	4
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 I	MUS 104	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
Relig 205	3	Introduction to World Religions	REL 105	3
Soc 134	3	Introduction to Sociology	SOC 110	3

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

Other Courses Required for SOME Engineering Curricula

ISU	Engr Major	Cr		ICCC	Cr
Acct 284	ConE	3	Financial Accounting	ACC 142	3
Biol 101	CE (Envr)	3	Introductory Biology	BIO 102	3
Biol 212	BSE	3	Principles of Biology II	BIO 113	3
Chem 178,178L	ChE, CE (Envr), MatE	4	General Chemistry II & Lab II	CHM 175	4
Chem 231,231L	CE (Envr), BSE (BE, FE)	4	Elementary Organic Chemistry	CHM 130, 131	4
Chem 331	BSE including lab (Pre, BR), ChE	3	Organic Chemistry I	CHM 261	3
Chem 332	BSE including lab (Pre, BR), ChE	3	Organic Chemistry II	CHM 271	3
ComS 207	EE	3	Programming I	CIS 162	4
Math 265	ALL but AE, BSE, SE	4	Calculus III	MAT 219	4
Math 266	AE, CE, ConE (B,H)	3	Elementary Differential Equations	MAT 226	3
Math 267	ALL except those listed above	4	Elementary Diff. Eq's & Laplace Trans.	MAT 226	3
Phys 222	ALL but CE (Envr), SE	5	Classical Physics II	PHY 222	5
Sp Cm 212	AE, CE, IE, SE	3	Fundamentals of Public Speaking	SPC 101	3