

**ISU College of Engineering/Des Moines Area Community College  
Transfer Equivalency Guide**

ISU: 2009-2011 Catalog/Des Moines Area Community College: 2008-2009 Catalog

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

ISU	Cr		DMACC	Cr
Chem 177 or 167	4	General Chemistry for Engineers	CHM 165	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	EGR150 & 161 or EGR 155 & 161	4
Lib 160	0.5	Library Instruction	SDV 171	1
Math 165	4	Calculus I	MAT 211	5
Math 166	4	Calculus II	MAT 217	5
Phys 221	5	Classical Physics I	PHY 213	6

\*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		DMACC	Cr
Anthr 201	3	Intro. to Cultural Anthropology	ANT 105 or 110	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 150	4
Hist 222	3	Survey of U.S History II	HIS 153	4
Music 102	3	Introduction to Music Listening	MUS 100	3
Phil 201	3	Introduction to Philosophy	PHI 101	3
Pol S 215	3	Intro. 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
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		DMACC	Cr
Acct 284	ConE	3	Financial Accounting	ACC 131	4
Biol 101	CE (Envr)	3	Introductory Biology	BIO 104	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 331	BSE(including lab), ChE	3	Organic Chemistry I	CHM 263	3
Chem 332	BSE(including lab)(Pre, BR), ChE	3	Organic Chemistry II	CHM 273	3
Engr 170	AE, BSE, CE, ConE, MatE, ME	3	Engr. Graphics & Intro. to Design	EGR 166	4
EM 274	ALL but ChE, CprE, EE, SE	3	Engineering Statics	EGR 180	3
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 227	4
Math 267	ALL except those listed above	4	Elem. Diff. Eq's & Laplace Trans.	MAT 227	4
Phys 222	ALL but CE (Envr), SE	5	Classical Physics II	PHY 223	6
Sp Cm 212	AE, CE, IE, SE	3	Fundamentals of Public Speaking	SPC 101	3