

Hawkeye Community College Transfer Guide

HCC / Iowa State University
Department of Agriculture and Biosystems Engineering

MACHINE SYSTEMS

HCC Catalog; ISU 2011-2012 Catalog

Recommended Core Courses for Agricultural & Biosystems Engineering Students with an emphasis on Machine Systems:

<i>HCC Courses</i>	<i>Title</i>	<i>Cr.</i>	<i>ISU Course</i>	
Communications				
ENG105	Composition I	3	ENGL 150	
ENG106	Composition II	3	ENGL 250	
SPC101	Fundamentals of Oral Communication	3	SP CM 212	
Mathematical, Physical, and Life Science				
MAT 134	Trigonometry and Analytic Geometry	3	MATH 142	142 & Math 160 at ISU or Math 165
MAT210	Calculus I	4	MATH 165	
PHY162	College Physics I	4	PHYS 111	
	<i>and</i>			
PHY172	College Physics II	4	PHYS 112	
BUS 210	Business Statistics	3	STAT 104	
	<i>or</i>			
MAT 156	Statistics	3	STAT 104	
BIO 105	Introductory Biology	4	BIOL 101	
	<i>or</i>			
BIO 112	General Biology II	4	BIOL 211	
	<i>or</i>			
BIO 105	Introductory Biology	4	BIOL 101	
Life Sciences (3 credits needed)				
AGA 114	Principles of Agronomy	3	AGRON 114	
AGA 284	Pesticide Application Certification	3	AGRON 283	
AGS 113	Survey of the Animal Industry	2	AN S 114	
	Survey of the Animal Industry Lab	1	AN S 101	
AGS 211	Issues Facing Animal Science	2	AN S 211	
AGS 218	Domestic Animal Physiology	3	AN S 214	
	Domestic Animal Physiology Lab	1	An S 214L	
AGS 225	Swine Science	3	AN S 225	
AGS 226	Beef Cattle Science	3	AN S 226	
AGS 229	Sheep Science	3	AN S 229	
AGH 119	Herbaceous Plant Materials	2	HORT 330	
Social Sciences				
ECN 130	Principles of Microeconomics	3	ECON 101	
Humanities (3 credits needed)				
ART203	Art History I	3	ART H 280	
ART204	Art History II	3	ART H 281	
HIS117	Western Civilization I: Ancient & Medieval	4.5	HIST 201	
HIS118	Western Civilization II: Early Modern	4.5	HIST 202	
HIS 119	Western Civilization III: Modern Period			

Must be
taken
together
to earn
credit

HIS151	U.S. History to 1877	3	HIST 221
HIS152	U.S. History since 1877	3	HIST 222
LIT101	Introduction to Literature	3	ENGL 201
DRA107	Theatrical Arts and Society	3	THTR 106
EDU 235	Children's Literature	3	HD FS 240
MUS100	Music Appreciation	3	MUSIC 102
PHI105	Introduction to Ethics	3	PHIL 230
PHI101	Introduction to Philosophy	3	PHIL 201
REL101	Survey of World Religions	3	RELIG 205

Ethics

(3 credits needed)

PHI105	Introduction to Ethics	3	PHIL 230
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International Perspective

(3 credits needed)

Must be
taken
together
to earn
credit

ANT105	Cultural Anthropology or	3	ANTHR 201
SOC 208	Cultural Anthropology	3	ANTHR 201
ART 203	Art History I	3	ART H 280
ART 204	Art History II	3	ART H 281
HIS117	Western Civ. I: Ancient & Medieval	4.5	HIST 201
HIS118	Western Civ. II: Early Modern	4.5	HIST 202
HIS 119	Western Civ. III: Modern Period		
MUS100	Music Appreciation	3	MUSIC 102
POL125	Comparative Government and Politics	3	POL S 241
POL 121	International Relations	3	POL S 251
REL101	Survey of World Religions	3	RELIG 205
FLF 245*	French II	5	FRNCH 102
FLS152*	Spanish II	5	SPAN102

**or higher level foreign language course*

U.S. Diversity

(3 credits needed)

EDU 235	Children's Literature	3	HD FS 240
PSY261	Human Sexuality	3	HD FS 276
SOC205	Diversity in America	3	SOC 235
SOC115	Social Problems	3	SOC 235
WST101	Women's Studies	3	W S 201

Business Core

(6 credits needed)

ACC 131	Principles of Accounting I	4	ACCT 284
AGB 336	Agricultural Selling	3	ECON 336

Technical Electives

(12 credits needed)

AGA114	Principles of Agronomy	3	AGRON 114
MAT 216	Calculus II	4	MATH 166

A total of 65 community college credits can be applied towards your major at Iowa State University.