

# Des Moines Area Community College Transfer Guide

DMACC/Iowa State University  
Department of Agriculture and Biosystems Engineering

## Industrial Technology

DMACC Catalog; ISU 2015-2016 Catalog

- This course list is meant to act as a *guide* - accepted courses are subject to change. Please contact an ABE advisor (<http://www.abe.iastate.edu/undergraduate-students/advising-for-ast-i-tech/>) for the most up-to-date course information.
- To compare ISU courses with transfer courses from DMACC, you can access the transfer equivalency guide at: <http://www.admissions.iastate.edu/equiv/index.php?state=iowa>.

### Recommended Core Courses for Industrial Technology.

Options are available for *Manufacturing or Occupational Safety*.

DMACC Courses	Title	Cr.	ISU Course
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#### Interpersonal and Public Communication Skills

ENG 105	Composition I	3	ENGL 150
ENG 106	Composition II	3	ENGL 250
SPC 101	Fundamentals of Oral Communication	3	SP CM 212
SDV 171	Library Instruction	1	LIB 160

#### Mathematical, Physical, and Life Sciences

Credit in CHEM 177&177L will meet the requirement for CHEM 163&163L	MAT 166	Calculus for Business/Social Science	4	MATH 151	} <b>Math Requirement:</b> -Math 151 + Math 145 (at ISU) <b>OR</b> -Math 165 alone
	MAT 211	Calculus I	5	MATH 165	
	PHY 160	General Physics I	5	PHYS 111	
	CHM 165	General Chemistry I	4	CHEM 177	}
	BIO 104	General Chemistry I Lab	1	CHEM 177L	
		Introductory Biology w/lab	3	BIOL 101	} Either BIO 112 or 113 will count for BIOL 211
		<b>OR</b>			
	Bio 112	General Biology I	4	BIOL 2T**	
		<b>OR</b>			
	Bio 113	General Biology II	4	BIOL 2T**	

#### Life Sciences

(3 credits needed)

For a complete list of **Life Science** courses at ISU please visit:

[http://www.agstudent.iastate.edu/agriculturestudentservices/life\\_science.htm](http://www.agstudent.iastate.edu/agriculturestudentservices/life_science.htm).

Compare this list with the Transfer Equivalency guide for your institution to choose your 3 credits of life sciences.

#### Business, Humanities, Ethics and Social Sciences

AGB 101	Agricultural Economics	3	ECON 101
	<b>OR</b>		
ECN 130	Principles of Microeconomics	3	ECON 101
ACC 131	Principles of Accounting I	3	ACCT 284

**For Humanities, International Perspectives, and U.S. Diversity, accepted courses are subject to change. Please check with an ABE advisor for the most popular courses, how to double count courses to fulfill more than one academic requirement, and current updates.**

#### Humanities Electives

Select from CALS-approved list (3 credits required)

DRA 101	Introduction to Theatre	3	THRE 106
HIS 112	West Civ: Ancient to Early Modern	4	HIST 201
HIS 113	West Civ: Early Modern to Present	4	HIST 202
HIS 150	U.S. History to 1877	4	HIST 221
HIS 153	U.S. History since 1877	4	HIST 222
LIT 101	Intro to Literature	3	ENGL 201
MUS 100	Music Appreciation	3	MUSIC 102
PHI 101	Introduction to Philosophy	3	PHIL 201

PHI 105	Introduction to Ethics	3	PHIL 230
REL 101	Survey of World Religions	3	RELIG 205

\* These are Humanities courses that have transferred in the past.

For a complete list of **Humanities** courses at ISU please visit:

<http://www.agstudent.iastate.edu/agriculturestudentservices/humanities.htm>

### International Perspective

(3 credits needed)

ANT 105	Cultural Anthropology	3	ANTHR 201
	<b>OR</b>		
ANT 110	Faces of Culture	3	ANTHR 201
FLC 142	Elementary Chinese II	4	CHIN 102
FLC 241	Intermediate Chinese I	4	CHIN 201
FLC 242	Intermediate Chinese II	4	CHIN 202
FLF 152	Elementary French II	5	FRNCH 102
FLF 241	Intermediate French I	4	FRNCH 201
FLF 242	Intermediate French II	4	FRNCH 202
FLG 142	Elementary German II	4	GER 102
FLG 241	Intermediate German I	4	GER 201
FLG 242	Intermediate German II	4	GER 202
FLS 152	Elementary Spanish II	5	SPAN 102
FLS 241	Intermediate Spanish I	4	SPAN 201
FLS 242	Intermediate Spanish II	4	SPAN 202
	<b>* or higher level of foreign language course</b>		
HIS 112	Western Civ: Ancient to Early Modern	4	HIST 201
HIS 113	Western Civ: Early Modern to Present	4	HIST 202
MUS 100	Music Appreciation	3	MUSIC 102
POL 121	International Relations	3	POL S 251
POL 125	Comparative Government & Politics	3	POL S 241
REL 101	Survey of World Religions	3	RELIG 205

\* These are International Perspectives courses that have transferred in the past.

For a complete list of **International Perspective** courses at ISU please visit:

<http://www.registrar.iastate.edu/students/div-ip-guide/IntlPerspectives-current>

For a complete list of non-equivalent transfer courses approved for use as International Perspectives please visit:

<http://www.registrar.iastate.edu/sites/default/files/uploads/courses/TransferIP.pdf>

### U.S. Diversity

(3 credits needed)

LIT 105	Children's Literature	3	HD FS 240
PSY 261	Human Sexuality	3	HD FS 276
SOC 115	Social Problems	3	SOC 235

\* These are U.S. Diversity courses that have transferred in the past.

For a complete list of **U.S. Diversity** courses at ISU please visit:

<http://www.registrar.iastate.edu/students/div-ip-guide/usdiversity-courses>

For a complete list of non-equivalent transfer courses approved for use as U.S. Diversity Requirement please visit:

<http://www.registrar.iastate.edu/sites/default/files/uploads/courses/TransferDiv.pdf>

### Technology Core

Both CAD Courses must be taken to gain credit for TSM 116		CAD 139	Intro to CAD/CAM	3	TSM 116
		CAD 184	Solidworks for Die Design	3	
	MGT 164	Total Quality Management	3	TSM 310	
Either sequence of courses must be taken together to gain credit for TSM 115.		EGR 150	Engineering FORTRAN	3	TSM 115
		EGR 161	Engineering Computations		
		EGR 155	Engineering C/C++	3	TSM 115
		EGR 161	Engineering Computations		

**A MAXIMUM OF 65 COMMUNITY COLLEGE CREDITS CAN BE APPLIED TOWARDS YOUR MAJOR AT IOWA STATE UNIVERSITY**