

IOWA STATE UNIVERSITY College of Engineering	Transfer Planning with Moraine Valley Community College Courses
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Courses used in all engineering degree programs at ISU >> If offered at your school, focus on these courses first <<				
Iowa State	Cr	Iowa State Course Name	MVCC	Cr
CHEM 1770 (or 1670)	4	General Chemistry I (for Engineers)	CHM 131	4
ENGL 1500	3	Critical Thinking and Communication	COM 101	3
ENGL 2500	3	WOVE Composition	COM 102	3
ENGR 1010	R	Engineering Orientation	n/a	
ENGR 1600	3	Engineering Problems	n/a	
LIB 1600	1	Information Literacy	n/a	
MATH 1650	4	Calculus I	MTH 150	5
MATH 1660	4	Calculus II	MTH 151	5
PHYS 2310/2310L	5	Classical Physics I and Lab	PHY 203	4

The College of Engineering only accepts grades of “C” or higher for transfer courses*

Additional courses used in specific engineering degree programs at ISU					
Iowa State	Engineering Major(s) Requiring Course (see abbreviation key below)	Cr	Iowa State Course Name	MVCC	Cr
BIOL 2110 ⁺	AE, BME	3	Principles of Biology I	BIO 111*	4
BIOL 2120 ⁺	BSE, BME	3	Principles of Biology II	BIO 112*	4
CE 2740	AerE, AE, BSE, CE, ConE, EnvE, IE, ME	3	Engineering Statics	EGN 201	3
CHEM 1780+Lab	AE, BSE, BME, ChE, CE, EnvE, MatE	4	General Chemistry II and Lab	CHM 132	4
CHEM 2310+Lab	BSE, BME, CE(Envr), EnvE	4	Elementary Organic Chemistry and Lab	CHM 200	5
CHEM 3310+Lab	ChE (possibly BSE)	5	Organic Chemistry I and Lab	CHM 203	5
CHEM 3320+Lab	ChE (possibly BSE)	5	Organic Chemistry II and Lab	CHM 204	5
ECON 1010 or ECON 1020	ME, SE (also accepted as an elective by all other engineering majors)	3	Principles of Microeconomics (1010) or Principles of Macroeconomics (1020)	ECO 102 or ECO 101	3
MATH 2070	EE, CPRE	3	Matrices and Linear Algebra	MTH 210	3
MATH 2650	Required (or accepted as math elective) in all majors except AE(LW), BSE	4	Calculus III	MTH 152	4
MATH 2670	All	4	Differential Equations	MTH 201	3
PHYS 2320+Lab	AerE, BME, ChE, ConE, EE, IE, MatE, ME	5	Classical Physics II and Lab	PHY 204	4
SP CM 2120	AE, BSE, CE, EnvE, IE, ME, SE (or an elective by AerE, BME, ChE, CprE, CybE, EE, MatE)	3	Fundamentals of Public Speaking	COM 103	3

*MVCC BIO 111 and BIO 112 must both be completed in order to transfer as credit for ISU BIOL 2110 and BIOL 2120

Abbreviation key for majors listed above			
Abbreviation	Major	Abbreviation	Major
AerE	Aerospace Engineering	ConE	Construction Engineering
AE	Agricultural Engineering	BE; EL; HH; MCH	Building Emphasis; Electrical Emphasis; Heavy/Highway; Mechanical Emphasis
LW;AP; VS	Land&Water Resources option; Animal Production Systems option; Vehicle Systems option	CybE	Cyber Security Engineering
BSE	Biological Systems Engineering	EE	Electrical Engineering
BME	Biomedical Engineering	EnvE	Environmental Engineering
ChE	Chemical Engineering	IE	Industrial Engineering
CE	Civil Engineering	MatE	Materials Engineering
Envr	Environmental Specialization	ME	Mechanical Engineering
CprE	Computer Engineering	SE	Software Engineering

General Education: Social Science/Humanities (SS/H) Requirements

- Engineering degree programs require between 9 and 15 general education credits in social sciences and humanities (SS/H). The list below offers course options that are widely accepted by ISU engineering majors; however, each program has unique requirements—please confirm choices on an individual basis if you know your intended engineering major.
- Iowa State University requires each student to complete three credits of course work categorized as “U.S. Cultures and Communities” (indicated below with ¹); and three credits of course work categorized as “International Perspective” (indicated below with ²). These can be included within the SS/H requirements.

Social science/humanities (SS/H) courses widely accepted in ISU engineering degree programs				
Iowa State	Cr	Iowa State Course Name	MVCC	Cr
ANTHRO 2010 ²	3	Intro to Cultural Anthropology	ANT 202	3
ECON 1010 / ECON 1020	3	Principles of Microeconomics / Macroeconomics	ECO 102 / ECO 101	3
HD FS 2400 ¹	3	Literature for Children	LIT 205	3
HD FS 2760 ¹	3	Human Sexuality	PSY 211	3
HIST 2010 ²	3	Intro to Western Civilization I	HIS 101	3
HIST 2020 ²	3	Intro to Western Civilization II	HIS 102	3
HIST 2210	3	Survey of U.S. History I	HIS 201	3
HIST 2220	3	Survey of U.S. History II	HIS 202	3
MUSIC 1020 ²	3	Intro to Music Listening	MUS 107	3
PHIL 2010	3	Intro to Philosophy	PHI 101	3
POL S 1110	3	Intro to American Government	SC 110	3
POL S 1210 ²	3	Intro to International Politics	PSC 210	3
PSYCH 1010	3	Intro to Psychology	PSY 101	3
PSYCH 2300	3	Developmental Psychology	PSY 104	3
PSYCH 2800	3	Social Psychology	PSY 202	3
RELIG 2050 ²	3	World Religions	PHI 120	3
SOC 1340	3	Intro to Sociology	SOC 101	3
SOC 2190	3	Sociology of Intimate Relationships	SOC 102	3
SOC 2350 ¹	3	Social Problems and American Values	SOC 204	3

More information and resources

- Please use this transfer plan as a guide as you confirm course choices with an academic advisor in your major of interest.
- Additional transfer student resources are available at www.engineering.iastate.edu/transfer-students.
- Email questions to engineering@iastate.edu.

Sample MVCC course plan – Year One

SEMESTER 1

MVCC Course Number	Credits	Course Name/Topic	Equivalent course at Iowa State
COM 101	3	English/Composition I	ENGL 1500
MTH 150	5	Calculus I	MATH 1650
HIS 101	3	Western Civilization	HIST 2010 ²
CHM 131	4	General Chemistry I	CHEM 1770 (or CHEM 1670)
	= 15 cr		

SEMESTER 2

MVCC Course Number	Credits	Course Name/Topic	Equivalent course at Iowa State
COM 102	3	English/Composition II	ENGL 2500
MTH 151	5	Calculus II	MATH 1660
PHY 203*	4	Classical Physics I	PHYS 2310/2310L
ECO 102	3	Microeconomics	ECON 1010
	= 15 cr		