

**ISU College of Engineering/Eastern Iowa Community College
Transfer Plan**

ISU 2016-2017 Catalog; EICC 2016-2017 Catalog

Iowa State University College of Engineering Requirements

- Courses must be completed with a grade of “C” or better in order to be considered for transfer credits into the College of Engineering.
- All engineering students must successfully complete all “Basic Program” courses (listed below) before progressing to upper level engineering program course work.
- Students not adequately prepared for success in Calculus I may need to take courses in addition to those listed in the Basic Program. Some students may first need to successfully complete college algebra (Math 140; EICC MAT 121) and/or college trigonometry/prep for calculus (Math 143; EICC MAT 128).
- The College of Engineering requires two years of a single foreign language in high school – OR – an equivalent in college (typically two semesters).

Basic Program courses: required in ALL engineering degree programs at ISU

ISU Course	Cr		EICC Course	Cr
Chem 177 or 167	4	General Chemistry for Engineers	CHM 165 or 166	4
English 150	3	Critical Thinking and Communication	ENG 105 or 107	3
English 250	3	WOVE Composition	ENG 106 or 108	3
Engr 101	R	Engineering Orientation		
Engr 160	3	Engineering Problems		
Lib 160	1	Library Instruction		
Math 165	4	Calculus I	MATH 210	4
Math 166	4	Calculus II	MATH 216	4
Phys 221	5	Classical Physics I	PHY 212	5

Additional courses required in specific engineering degree programs (majors) at ISU

(see abbreviation key below)

ISU Course	Engineering Major Requiring Course	Cr		EICC Course	Cr
Biol 211+	AE, CE(Envr)	3	Principles of Biology I	BIO 114+	4
Biol 212+	BSE	3	Principles of Biology II	BIO 115+	4
Chem 178/178L	AE, ChE, CE(Envr), MatE	4	General Chemistry II & Lab II	CHM 175 or 176	4
Chem 231	BSE(BE,FD), CE(Envr)	3	Elementary Organic Chemistry	CHM 132	3
Chem 331	BSE(BR,Pre), ChE	3	Organic Chemistry I	CHM 261 or 263	3
Chem 332	BSE(BR,Pre), ChE	3	Organic Chemistry II	CHM 271 or 273	3
Engr 170	AE, BSE, CE, ConE, ME	3	Engr. Graphics & Intro. to Design	EGR 400	3
EM 274	All <i>except</i> ChE, CprE, EE, SE	3	Statics of Engineering	EGR 180	3
EM 345	AerE, AE(PM), CE, ME	3	Dynamics	EGR 280	3
Math 265	All <i>except</i> AE, BSE, SE	4	Calculus III	MAT 219	4
Math 267	ALL	4	Elem. Diff. Eq's & Laplace Trans.	MAT 227	4
Phys 222	All <i>except</i> CE(Envr), SE	5	Classical Physics II	PHY 222	5
Sp Cm 212	CE, IE, SE	3	Fundamentals of Public Speaking	SPC 111,112	3

*EICC BIO 114 & BIO 115 must both be completed in order to transfer as credit for ISU Biol 211 and Biol 212

Abbreviation	Major	Abbreviation	Major
AerE	Aerospace Engineering	CE	Civil Engineering
AE	Agricultural Engineering	Envr	Environmental option within CE
PM	Power and machinery option within AE	CprE	Computer Engineering
BSE	Biological Systems Engineering	ConE	Construction Engineering
BE	Bioenvironmental option within BSE	Mech	Mechanical option within ConE
BR	Biorenewable option within BSE	EE	Electrical Engineering
FD	Food Engineering option within BSE	IE	Industrial Engineering
Pre	Pre-professional/Pre-graduate option within BSE	MatE	Materials Engineering
ChE	Chemical Engineering	ME	Mechanical Engineering
		SE	Software Engineering

Social Science/Humanities/General Education Requirements

- Engineering degree programs require 12-15 credits in social sciences/humanities/general education. The list below offers course options that are accepted by all ISU engineering departments.
- Iowa State University requires each student to complete a “US Diversity” course (indicated below with ¹); and an “International Perspective” course (indicated below with ²).

Social science/humanities/general education courses accepted in all ISU engineering degree programs				
ISU Course	Cr		EICC Course	Cr
Anthr 201 ²	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
Engl 201	3	Introduction to Literature	LIT 101 or 200	3
HD FS 240 ¹	3	Literature for Children	LIT 105	3
Hist 201 ²	3	Introduction To Western Civilization I	HIS 117	3
Hist 202 ²	3	Introduction To Western Civilization II	HIS 118 & 119	3
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 ²	3	Introduction to Music Listening	MUS 100	3
Phil 201	3	Introduction to Philosophy	PHI 101	3
Phil 230	3	Introduction to Ethics	PHI 105	3
Pol S 215	3	Introduction to American Government	POL 111	3
Pol S 241 ²	3	Comparative Governments and Politics	POL 125	3
Pol S 251 ²	3	Introduction to International Politics	POL 121	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 or SOC 251	3
HD FS 276 ¹	3	Human Sexuality	PSY 261 or SOC 261	3
Relig 205 ²	3	Introduction to World Religions	REL 101	3
Soc 134	3	Introduction to Sociology	SOC 110	3
Soc 219	3	Sociology of Intimate Relationships	SOC 120	3
Soc 235 ¹	3	Social Problems and American Values	SOC 115	3
Soc 241	3	Youth & Crime	CRJ 201	3

Please use this transfer plan as a guide as you confirm course choices with an academic adviser in your major of interest.

Additional transfer student resources are available at www.engineering.iastate.edu/transfer.