Courses used in all engineering degree programs at ISU >> If offered at your school, <i>focus on these courses first</i> <<					
Iowa State	Cr	Iowa State Course Name	EICC	Cr	
CHEM 1770 (or 1670)	4	General Chemistry I (for Engineers)	CHM 165 or 166	4-5	
ENGL 1500	3	Critical Thinking and Communication	ENG 105	3	
ENGL 2500	3	WOVE Composition	ENG 106	3	
ENGR 1010	R	Engineering Orientation	Not Offered		
ENGR 1600	3	Engineering Problems	Not Offered		
LIB 1600	1	Information Literacy	Not Offered		
MATH 1650	4	Calculus I	MAT 210	4	
MATH 1660	4	Calculus II	MAT 216	4	
PHYS 2310/2310L	5	Classical Physics I and Lab	PHY 212	5	

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)		Iowa State Course Name	EICC	Cr	
AGRON 1810	AE(LW)	3	Intro to Crop Science	AGA 181	3	
AGRON 1820	AE(LW,PM)	3	Intro to Soil Science	AGA 182	3	
BIOL 2110 ⁺	AE, BME	3	Principles of Biology I	BIO 114	4	
BIOL 2120+	BSE, BME	3	Principles of Biology II	BIO 115	4	
CE 2740	AerE, AE, BSE, CE, ConE, EnvE, IE, ME	3	Engineering Statics	EGR 180	3	
CHEM 1780+Lab	AE, BSE, BME, ChE,CE,EnvE,MatE,	4	General Chemistry II and Lab	CHM 175 or 176	4-5	
CHEM 2310+Lab	BSE, BME, CE(<i>Envr</i>), EnvE	4	Elementary Organic Chemistry and Lab	CHM 132	4	
CHEM 3310+Lab	ChE (possibly BSE)	5	Organic Chemistry I and Lab	CHM 261/263	4	
CHEM 3320+Lab	ChE (possibly BSE)	5	Organic Chemistry II and Lab	CHM 271/273	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)	ECN 130 or ECN 120	3	
ENGR 1700	AE, BSE, CE, ConE, MatE, ME	3	Engineering Graphics & Intro to Design	EGR 400	3	
MATH 2650	Required (or accepted as math elective) in all majors except AE(<i>LW</i>), BSE	4	Calculus III	MAT 219	4	
MATH 2670	All	4	Differential Equations	MAT 227	4	
ME 3450	AerE, AE(<i>PM</i>), CE, ME	3	Engineering Dynamics	EGR 280	3	
PHYS 2320+Lab	AerE,BME, ChE,ConE,EE,IE,MatE,ME	5	Classical Physics II and Lab	PHY 222	5	
SP CM 2120	AE,BSE,CE,EnvE,IE,ME,SE (also accepted as an elective by BME, ChE,CprE,CybE,EE,MatE)	3	Fundamentals of Public Speaking	SPC 112	3	

*EICC BIO 114 & BIO 115 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;	Building Emphasis; Electrical Emphasis;		
LW;AP;	Land&Water Resources option; Animal Production	HH; MCH	Heavy/Highway; Mechanical Emphasis		
PM	Systems option; Power&Machinery 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	EICC	Cr	
ANTHRO 2010 ²	3	Intro to Cultural Anthropology	ANT 105	3	
CJ ST 2410	3	Youth and Crime	CRJ 201	3	
ECON 1010 / ECON 1020	3	Principles of Microeconomics / Macroeconomics	ECN 130 or 120	3	
HD FS 2400 ¹	3	Literature for Children	EDU 235	3	
HD FS 2760 ¹	3	Human Sexuality	PSY 261	3	
HIST 2010 ²	3	Intro to Western Civilization I	HIS 117 and 118	6	
HIST 2020 ²	3	Intro to Western Civilization II	HIS 118 and 119	6	
HIST 2210	3	Survey of U.S. History I	HIS 151	3	
HIST 2220	3	Survey of U.S. History II	HIS 152	3	
MUSIC 1020 ²	3	Intro to Music Listening	MUS 100	3	
PHIL 2010	3	Intro to Philosophy	PHI 101	3	
POL S 1110	3	Intro to American Government	POL 111	3	
POL S 1250 ²	3	Democracy and Dictatorship: Intro to Comparative Politics	POL 125	3	
POL S 1210 ²	3	Intro to International Politics	POL 121	3	
PSYCH 1010	3	Intro to Psychology	PSY 111	3	
PSYCH 2300	3	Developmental Psychology	PSY 121	3	
PSYCH 2800	3	Social Psychology	PSY 251	3	
RELIG 2050 ²	3	World Religions	REL 101	3	
SOC 1340	3	Intro to Sociology	SOC 110	3	
SOC 2190	3	Sociology of Intimate Relationships	SOC 120	3	
SOC 2350 ¹	3	Social Problems and American Values	SOC 115	3	

More information and resources

- We only accept grades of "C" or higher for transfer into the College of Engineering.
- Pre-engineering students are encouraged to join Iowa State's free Admissions Partnership Program: www.admissions.iastate.edu.
- Please use this transfer plan as a guide as you confirm course choices with an academic advisor in your major of interest.
- Email questions to engineering@iastate.edu. Additional resources are available at www.engineering.iastate.edu/transfer-students.

Sample EICC course plan – Year One

SEMESTER 1

EICC Course Number	Credits	Course Name/Topic	Equivalent course at Iowa State
ENG 105	3	English/Composition I	ENGL 1500
MAT 210	4	Calculus I	MATH 1650
POL 121 or SOC 115	3	Social Science Elective	POL S 2510 or SOC 2350
CHM 165	4	General Chemistry I	CHEM 1770 (or CHEM 1670)
	= 14 cr		

SEMESTER 2

EICC Course Number	Credits	Course Name/Topic	Equivalent course at lowa State
ENG 106	3	English/Composition II	ENGL 2500
MAT 216	4	Calculus II	MATH 1660
PHY 212	5	Classical Physics 1 and Lab	PHYS 2310 & 2310L
ECN 130	3	Microeconomics	ECON 1010
	= 15 cr		