

Missouri S&T — Eastern Iowa Community College District

General Engineering Transfer Guide

Effective Fall 2014

The following course work will apply to Missouri S&T degree requirements as outlined below.

Eastern Iowa Community College District				Missouri S&T		
EICCD #	Title	Hours	S&T #	Title	Hours	
Engineering Degree Requirements: Take all Courses						
General Pre-Engineering Curriculum	Math prerequisites. While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. Students should follow math placement testing and advising recommendations at their schools.					
	MAT 210	Calculus I	4	MATH 1214	Calculus for Engineers I	4
	MAT 216	Calculus II	4	MATH 1215	Calculus for Engineers II	4
	MAT 219	Calculus III	4	MATH 2222	Calculus with Analytic Geometry III	4
	MAT 227	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
	PHY 212	Classical Physics I	5	PHYSICS 1135	Engineering Physics I	4
	PHY 222	Classical Physics II	5	PHYSICS 2135	Engineering Physics II	4
	CHM 165	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5
	EGR 160	Engineering I	3	MECH ENG 1720	Engineering Design with Computer Appl	3
	ENG 105	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
	See Degree Requirements below and Notes on back.				Second Communication Requirement*	3
	ECN 120	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
	HIS 151 or HIS 152	US History to 1877 or History since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
	Free Electives: See Other Required Courses* on back. Electives should be selected in consultation with your advisor. Free electives may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.				Free Electives: See Other Required Courses* on back.	
	Total Hours			41	Total Hours	

Humanities and Social Sciences Electives: Select 2 Additional Courses from the Academic Areas Below*

See your advisor and Missouri S&T Approved List of Humanities and Social Sciences for more options or email transfercredit@mst.edu.

Students may also transfer one upper-level humanities/social sciences elective to Missouri S&T.

Humanities and Social Sciences Electives	HIS 151	US History to 1877	3	HISTORY 1300	American History to 1877	3
	HIS 152	US History since 1877	3	HISTORY 1310	American History since 1877	3
	ART101	Art Appreciation	3	ART 1180	Art Appreciation	3
	PSY 111	Intro to Psychology	3	PSYCH 1101	General Psychology	3
				PHILOS 1105	Intro to Philosophy	3
					Literature required for MechE, AeroE	3
					Ethics required for AeroE	3
		See your advisor for course options.			Other Social Science elective: history, economics, political science, sociology, psychology.	3
		See your advisor for course options.			Other Humanities elective: philosophy, fine art, literature, foreign language.	3
	Total Hours			6-8	Total Hours	

Additional Degree Requirements*

The following additional courses will satisfy Missouri S&T engineering degree requirements for some, but not all, engineering degrees.

Check Requirements and Notes for Missouri S&T Engineering Majors (see page 2) for specific major requirements.

Additional Courses (See Back Page for Individual Engineering Major Requirements)	ENG 106	Composition II	3	ENGLISH 1160	Writing and Research	3
	ENG 108	Composition II: Technical Writing	3	ENGLISH 3560	Technical Writing	3
	SPC 112	Public Speaking	3	SPMS 1185	Principles of Speech	3
	CHM 175	General Chemistry II	4	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
	BIO 114	General Biology I	4	BIO SCI 1113	General Biology	4
	EGR 285	Introduction to Electrical Science	4	EE 2800 (2100)**	Circuit Analysis I (Circuits I)**	3
	EGR 180	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
	EGR 170	Material Science	3	CIV ENG 2210	Mechanics of Materials	3
	EGR 280	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
	EGR 290	Thermodynamics	3	MECH ENG 2519	Thermodynamics	3

Maximum credit hours to be transferred to Missouri S&T degree requirements.

68

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.

Students must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

A grade of "C" or better is required in calculus and physics, as well as other courses depending on academic major.

*See notes for individual majors on second page.

**A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.