

Missouri S&T — Graceland University

General Engineering Transfer Guide

Effective Fall 2014

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

Graceland University				Missouri S&T			
GU #	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.						
	MATH 1510 and MATH 1520 and MATH 2510 and MATH 2520****	Calculus I and Calculus II and Calculus III and Calculus IV ****	3 3 3 3		MATH 1214 and MATH 1215 and MATH 222	Calculus for Engineers I and Calculus for Engineering II and Calculus with Analytical Geometry III	4 4 4
	CHEM 1430	Principles of Chemistry I	4		CHEM 1310, 1319	General Chemistry I and Lab	5
	ENGL 1410	Modern Rhetoric	3		ENGLISH 1120	Exposition and Argumentation	3
	See Degree Requirements below and Notes on back.					Second Communication Requirement*	3
	ECON 1300	Principles of Macroeconomics	3		ECON 1200	Principles of Macroeconomics	3
	HIST 2410	US History to 1865	3		HISTORY 1300	American History to 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			13		Total Hours 17	
	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	HIST 2410	US History to 1865	3		HISTORY 1300	American History to 1877	3
	THTR 1200	Intro to Theatre	3		THEATRE 1190	Theatre Appreciation	3
	PSYC 1300	Intro to Psychology	3		PSYCH 1101	General Psychology	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 6-8	
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)	ENGL 3220	Technical Report Writing	3		ENGLISH 1160	Writing and Research	3
	COMM 1200	Speech Communication: An Intro	3		SPMS 1185	Principles of Speech	3
	CHEM 1440	Principles of Chemistry II	4		CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
	CSIT 1200	Data Structures	3		CS 1510	Data Structures	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.							