

Geological Engineering

Semester	Missouri State University				University of Missouri-Rolla		
	MSU #	Title	Hours	Grade	UMR #	Title	Hours
First	MTH 261	Analytic Geometry & Calculus I	5		MATH 014	Calculus w/Analytic Geometry I	4
	CHM 160	General Chemistry I	4		CHEM 001	General Chemistry	4
	ENG 110	Writing I	3		ENG 020	Exposition & Argumentation	3
	HST 102 or	Western Civilization II or			HIST 112 or	Modern Western Civilization or	
	HST 121 or	History of US to 1877 or	3		HIST 175 or	American History to 1877 or	3
	HST 122 or	History of US 1877-present or			HIST 176 or	American History since 1877 or	
	PLS 101	American Democracy & Citizenship			PS 090	American Government	
	Total Semester Hours		15		Total Semester Hours		14
Second	MTH 280	Analytic Geometry & Calculus II	5		MATH 015	Calculus w/Analytic Geometry II	4
	PHY 203	Foundations of Physics I	5		PHYS 023	Engineering Physics I	5
	CHM 170	General Chemistry II	3		CHEM 003	General Chemistry	3
	CHM 175	General Chemistry Lab	2		CHEM 002	General Chemistry Lab	1
	Total Semester Hours		15		Total Semester Hours		13
Third	MTH 302	Multivariate Calculus	3		MATH 022	Calculus w/Analytic Geometry III	4
	PHY 204	Foundations of Physics II	5		PHYS 024	Engineering Physics II	4
	GLG 110	Physical Geology	4		GE 050	Geology for Engineers	3
	PHY 233	Statics	3		IDE 050	Engineering Mechanics - Statics	3
	ENG 120 or	Writing II or			ENG 060 or	Writing and Research or	
	ENG 321 or	Beginning Technical Writing or	3		ENG 160 or	Technical Writing or	3
	COM 115	Fundamentals of Public Speaking			SPMS 085	Principles of Speech	
	Total Semester Hours		18		Total Semester Hours		17
Fourth	MTH 303	Differential Equations	3		MATH 204	Elementary Differential Equations	3
	CSC 125	Introduction to C++ Programming	3		CS 74, 78	Intro to Programming Methodology and Lab	3
	GLG 332	Mineralogy	4		GEO 113	Mineralogy & Crystallography	4
	ENG 221	Writing for the Professions	3		ENG 160	Technical Writing	3
	ECO 155 or	Principles of Macroeconomics or	3		ECON 122 or	Principles of Macroeconomics or	3
	ECO 165	Principles of Microeconomics			ECON 121	Principles of Microeconomics	
	Total Semester Hours		16		Total Semester Hours		16

This is a guide; with the consent of your advisor you may choose to vary the sequence or combination of some courses in a manner appropriate to individual course requirements and prerequisites. A grade of "C" or better is required in calculus and physics.