

Geological Engineering

Rockhurst University				University of Missouri-Rolla		
Semester	RU #	Title	Hours	UMR #	Title	Hours
First	MT 1800	Calculus I	4	MATH 014	Calculus with Analytic Geometry	5
	CH 2610	General Chemistry I	4	CHEM 001 and CHEM 002	General Chemistry I (4) and Lab (1)	5
	EN 1110	College Composition I	3	ENG 020	Exposition and Argumentation	3
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
		Total Semester Hours	14		Total Semester Hours	16
Second	MT 1810	Calculus II	4	MATH 015	Calculus with Analytic Geometry II	5
	PH 2800 and PH 2810	General Physics I (3) and Lab (1)	4	PHYS 023	Engineering Physics I	4
	CH 2630	General Chemistry II	4	CHEM 003	General Chemistry	3
	HS 1500 or HS 2100 or HS 2500	Survey of Western Civilization II or History of the US I or History of the US II	3	HIST 112 or HIST 175 or HIST 176 or	Modern Western Civilization or American History to 1877 or American History since 1877	3
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
		Total Semester Hours	18		Total Semester Hours	18
Third	MT 2800	Calculus III	4	MATH 022	Calculus with Analytic Geometry III	4
	PH 2900 and PH 2910	General Physics II (3) and Lab (1)	4	PHYS 024	Engineering Physics II	4
	ES 3500	Engineering Statics	3	IDE 050	Engineering Mechanics - Statics	3
	PL 1100	Reality and Human Existence	3	PHIL 005	Intro to Philosophy	3
		Total Semester Hours	14		Total Semester Hours	14
Fourth	MT 3700	Differential Equations	3	MATH 204	Elementary Differential Equations	3
	EC 003 or EC 004	Principles of Macroeconomics or Principles of Microeconomics	3	ECON 122 or ECON 121	Principles of Macroeconomics or Principles of Microeconomics	3
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
		Total Semester Hours	9		Total Semester Hours	9

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.