

## Geological Engineering

### Three Rivers Community College

### University of Missouri-Rolla

Semester	TRCC #	Title	Hours	Grade	UMR #	Title	Hours		
First	MATH 163*	College Algebra	3		MATH 004*	College Algebra	3		
	MATH 164*	Trigonometry	3		MATH 006*	Trigonometry	2		
	CHEM 121	General Chemistry I	5		CHEM 001,002	General Chemistry and Lab	5		
	ENGL 111	College Writing	3		ENG 020	Exposition & Argumentation	3		
	Total Semester Hours			14		Total Semester Hours			13
Second	MATH 171	Analytic Geometry & Calculus I	5		MATH 014	Calculus w/Analytic Geometry I	4		
	PHYS 211	General Physics I	5		PHYS 023	Engineering Physics I	4		
	CHEM 122	General Chemistry II	5		CHEM 003	General Chemistry	3		
	ENG 112 or SPDR 100 or SPDR 110	English Composition II or Introduction to Human Communication or Fundamentals of Speech	3		ENG 060 or SPMS 085	Writing and Research or Principles of Speech	3		
	Total Semester Hours			18		Total Semester Hours			14
	Third	MATH 271	Analytic Geometry & Calculus II	5		MATH 015	Calculus w/Analytic Geometry II	4	
PHYS 212		General Physics II	5		PHYS 024	Engineering Physics II	4		
HIST122 or HIST111 or HIST112		Western Civ since the Renaissance or American History to 1877 or American History since 1877	3		HIST112 or HIST175 or HIST176	Modern Western Civilization or American History to 1877 or American History since 1877	3		
CSC K108 or CSC K216		Introduction to Programming or Intermediate C++ Programming	4		CS 74,78 or CS 53,54	Intro to Programming Methodology and Lab (3) or Intro to Programming and Lab (4)	3		
Total Semester Hours			17		Total Semester Hours			14	
Fourth		MATH 272	Analytic Geometry & Calculus III	5		MATH 022	Calculus w/Analytic Geometry III	4	
		ECON 211 or ECON 212	Principles of Macroeconomics or Principles of Microeconomics	3		ECON 122 or ECON 121	Principles of Macroeconomics or Principles of Microeconomics	3	
	HPER 110**	Lifetime Wellness	2		PE 152**	Elements of Health Education	2		
		Humanities/Social Science Elective	3			Humanities/Social Science Elective	3		
	Total Semester Hours			13		Total Semester Hours			12

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.

\* Not creditable toward degree at UMR; credit and grade will transfer.

\*\* Required for AA degree at Three Rivers.