

Architectural 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
	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
	ENGL 111	College Writing	3		ENG 020	Exposition & Argumentation	3
	Total Semester Hours			17		Total Semester Hours 16	
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
	CVIL 116***	Surveying I	3		GNCR***	General Credit	3
	ENG 112	English Composition II	3		ENG 060	Writing and Research	3
		Humanities/Social Science Elective	3			Humanities/Social Science Elective	3
Total Semester Hours			19		Total Semester Hours 17		
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
	CVIL 216***	Surveying II	3		CV ENG 001***	Fundamentals of Surveying & Intro to Civil Eng.	
	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 11	
Fourth	MATH 272	Analytic Geometry & Calculus III	5		MATH 022	Calculus w/Analytic Geometry III	4
	HPER 110**	Lifetime Wellness	2		PE 152**	Elements of Health Education	2
	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
		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.

***The combination of TRCC CVIL 116 & CVIL 216 is equivalent to UMR CV ENG 001.

****UMR CS 74, 78 or CS 53, 54 will be substituted for ArchE 003.