

Environmental Engineering

Southeastern Illinois College				University of Missouri-Rolla		
Semester	SIC #	Title	Hours	UMR #	Title	Hours
First	MATH 161*	Pre-Calculus	4	MATH 004*	College Algebra	3
	CHEM 121	General Chemistry I	5	CHEM 001, 002	General Chemistry and Lab	5
	ENG 121	Rhetoric and Composition I	3	ENG 020	Exposition and Argumentation	3
	HIST 122 or HIST 241	History of Western Civilization or American History I	3	HIST 112 or HIST 175	Modern Western Civilization or American History to 1877	3
	Total Semester Hours		15	Total Semester Hours		14
Second	MATH 162	Calculus & Analytic Geometry I	5	MATH 014	Calculus with Analytic Geometry I	5
	ECON 121 or ECON 122	Principles of Macroeconomics or Principles of Microeconomics	3	ECON 122 or ECON 121	Principles of Macroeconomics or Principles of Microeconomics	3
	ENG 122 or SPCH 121	Rhetoric and Composition II or Principles of Speaking	3	ENG 060 or SPMS 085	Writing and Research or Principles of Speech	3
	CHEM 122	General Chemistry & Qualitative Analysis II	5	CHEM 003, 008	General Chemistry and Quantitative Analysis	5
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Total Semester Hours		19	Total Semester Hours		19
Third	MATH 221	Calculus and Analytic Geometry II	5	MATH 015	Calculus with Analytic Geometry II	5
	PHYS 221	General Physics I	5	PHYS 023	Engineering Physics I	4
	BIOL 121	Introductory Biology	4	BIOSC 110,112	General Biology Lec (3) and Lab (2)	5
		Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
Total Semester Hours		17	Total Semester Hours		17	
Fourth	MATH 222	Calculus and Analytic Geometry III	5	MATH 022	Calculus with Analytic Geometry III	4
	PHYS 241	Statics**	3	IDE 050	Engineering Mechanics - Statics**	3
	PHYS 222	General Physics II	5	PHYS 024	Engineering Physics II	4
Total Semester Hours		13	Total Semester Hours		11	

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.

*MATH 161 will not count toward an engineering degree at UMR; the credit and grade will transfer.