

Engineering Management

St. Charles Community College					University of Missouri-Rolla				
Semester	SCC #	Title	Hours	Grade	UMR #	Title	Hours		
First	MAT 180	Calculus & Analytic Geometry I	5		MATH 014	Calculus w/Analytic Geometry I	4		
	CHM 110	General Chemistry I	3		CHEM 001	General Chemistry	4		
	CHM 113	General Chemistry I Lab	2		CHEM 002	General Chemistry Lab	1		
	EGR 104	Engineering Design	3		IDE 020	Engineering Design w/Computer Applications	3		
	ENG 101	English Composition I	3		ENG 020	Exposition & Argumentation	3		
	Total Semester Hours			16		Total Semester Hours			15
Second	MATH 230	Calculus & Analytic Geometry II	5		MATH 015	Calculus w/Analytic Geometry II	4		
	EGR 100	Intro to Engineering	1		FE 010	Study & Careers in Engineering	1		
	HIS 146 or HIS 101 or HIS 102 or	Western Civ of Modern Europe or US History to 1877 or US History since 1877 or	3		HIST 112 or HIST 175 or HIST 176 or	Modern Western Civilization or American History to 1877 or American History since 1877 or	3		
	POL 101	American Government			PS 090	American Government			
	ENG 102 or SPE 101	English Composition II or Oral Communications	3		ENG 060 or SPMS 085	Writing and Research or Principles of Speech	3		
	ECO 110 or ECO 120	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			18		Total Semester Hours			17
	Third	MAT 240	Calculus & Analytic Geometry III	5		MATH 022	Calculus w/Analytic Geometry III	3	
PHY 240 and PHY 243		College Physics I (4) and Lab (1)	5		PHYS 023	Engineering Physics I	5		
EGR 170		Engineering Mechanics - Statics	3		IDE 050	Engineering Mechanics - Statics	3		
CPT 182		Programming in C	3		GNCR	General Credit	3		
Total Semester Hours			16		Total Semester Hours			14	
Fourth	MAT 250	Differential Equations	3		MATH 204	Elementary Differential Equations	3		
	PHY 241 and PHY 244	College Physics II (4) and Lab (1)	5		PHYS 024	Engineering Physics II	5		
	EGR 210	Engineering Mechanics - Dynamics	3		EME 160	Engineering Mechanics - Dynamics	3		
	CPT 186	Object Oriented Programming in C++	3		CS 074, 078	Introduction to Programming Methodology and Lab	3		
	PSY 101	Intro to Psychology	3		PSYCH 050	General Psychology	3		
	Total Semester Hours			17		Total Semester Hours			17

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.