

Electrical Engineering

Semester	Missouri State University				University of Missouri-Rolla			
	MSU #	Title	Hours	Grade	UMR #	Title	Hours	
First	MTH 261	Analytic Geometry & Calculus I	5		MATH 014	Calculus w/Analytic Geometry I	4	
	CHM 160	General Chemistry I	4		CHEM 001	General Chemistry	4	
	HST 102 or	Western Civilization II or			HIST 112 or	Modern Western Civilization or		
	HST 121 or	History of US to 1877 or			HIST 175 or	American History to 1877 or		
	HST 122 or	History of US 1877-present or	3		HIST 176 or	American History since 1877 or	3	
	PLS 101	American Democracy & Citizenship			PS 090	American Government		
	ENG 110	Writing I	3		ENG 020	Exposition & Argumentation	3	
	Total Semester Hours		15		Total Semester Hours		14	
Second	MTH 280	Analytic Geometry & Calculus II	5		MATH 015	Calculus w/Analytic Geometry II	4	
	PHY 203	Foundations of Physics I	5		PHYS 023	Engineering Physics I	5	
	CHM 170**	General Chemistry II	3		CHEM 003**	General Chemistry	3	
	CHM 175	General Chemistry Lab	2		CHEM 002	General Chemistry Lab	1	
	ECO 155 or	Principles of Macroeconomics or			ECON 122 or	Principles of Macroeconomics or		
	ECO 165	Principles of Microeconomics	3		ECON 121	Principles of Microeconomics	3	
	Total Semester Hours		18		Total Semester Hours		16	
Third	MTH 302	Multivariate Calculus	3		MATH 022	Calculus w/Analytic Geometry III	4	
	PHY 204	Foundations of Physics II	5		PHYS 024	Engineering Physics II	4	
	PHY 252*	Intro to Circuit Analysis	3		EE 281*	Electrical Circuits	3	
	ENG 221	Writing for the Professions	3		ENG 160	Technical Writing	3	
	PHY 233	Statics	3		IDE 050	Engineering Mechanics - Statics	3	
	Total Semester Hours		17		Total Semester Hours		17	
Fourth	MTH 303	Differential Equations	3		MATH 204	Elementary Differential Equations	3	
	PHY 343	Thermodynamics	3		ME 219	Thermodynamics	3	
	CSC 125	Introduction to C++ Programming	3		CS 74, 78	Intro to Programming Methodology and Lab	3	
	COM 115	Fundamentals of Public Speaking	3		SPMS 085	Principles of Speech	3	
		Humanities/Social Science Elective	3			Humanities/Social Science Elective	3	
	Total Semester Hours		15		Total Semester Hours		15	

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.

*A passing grade on the UMR EE Advancement Exam is required to receive credit for UMR EE 151.

**UMR Chem 003 is not a UMR degree requirement. Course will apply to degree as free elective.