

Electrical Engineering

Semester	St Louis Community College				University of Missouri-Rolla			
	SLCC #	Title	Hours	Grade	UMR #	Title	Hours	
First	MTH 210	Analytic Geometry & Calculus I	5		MATH 014	Calculus for Engineers I	4	
	CHM 105	General Chemistry I	5		CHEM 001 and CHEM 002	General Chemistry (4) and Lab (1)	5	
	ESC 100	Engineering Computer Application & Design	3		IDE 020	Engineering Design w/ Computer Application	3	
	ENG 101	College Composition I	3		ENG 020	Exposition & Argumentation	3	
	Total Semester Hours			16	Total Semester Hours			15
Second	MTH 220	Analytic Geometry & Calculus II	5		MATH 015	Calculus for Engineers II	4	
	PHY 122	Engineering Physics I	5		PHY 023	Engineering Physics I	4	
	COM 101 or COM 107	Oral Communication I or Public Speaking	3		SPMS 085	Principles of Speech	3	
	Total Semester Hours			13	Total Semester Hours			11
Third	MTH 230	Analytic Geometry & Calculus III	5		MATH 022	Calculus w/Analytic Geometry III	4	
	PHY 223	Engineering Physics II	5		PHY 024	Engineering Physics II	4	
	ESC 200*	Engineering Circuits I	4		EE 151*	Circuits I	3	
		Science Elective	3		EE 152	Circuits Analysis Lab	1	
	Total Semester Hours			17	Total Semester Hours			15
Fourth	MTH 240	Differential Equations	3		MATH 204	Elementary Differential Equations	3	
	ESC 201**	Engineering Circuits II**	4		EE 153**	Circuits II	3	
					EE 154	Circuits Analysis Lab II	1	
	ESC 101 or IS 227	Scientific Computer Programming or C Programming Language I	3		CS 053 or CS 74, 78	Introduction to Programming or Intro to Programming Methodology and Lab	3	
	HST 101 or HST 102 or PSC 101	American History I or American History II or Intro to American Politics	3		HIST 175 or HIST 176 or PS 090	American History to 1877 or American History since 1877 or American Government	3	
	ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 121 or ECON 122	Principles of Microeconomics or Principles of Macroeconomics	3	
	Total Semester Hours			16	Total Semester Hours			16

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.

* You must earn a passing grade on UMR EE Advancement Exam I before you enroll in UMR EE 153, 154, or 275.

**You must earn a passing grade on the UMR EE Advancement Exam II before you enroll in UMR EE 204, 206, 251, or 261.