

Ceramic Engineering

		St Louis Community College			University of Missouri-Rolla			
Semester	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	
	CHM 106	General Chemistry II	5		CHEM 003	General Chemistry	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			18		Total Semester Hours		
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 203	Engineering Mechanics I (Statics)	3		IDE 050	Engineering Mechanics - Statics	3	
		Humanities/Social Science Elective	3			Humanities/Social Science Elective	3	
Total Semester Hours			16		Total Semester Hours			14
Fourth	MTH 240	Differential Equations	3		MATH 204	Elementary Differential Equations	3	
	ESC 205	Mechanics of Materials	3		IDE 110	Mechanics of Materials	3	
	ESC 207	Engineering Thermodynamics	3		ME 219	Thermodynamics	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	
	Total Semester Hours			12		Total Semester Hours		

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.