

Kaskaskia College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2023

Complete Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice.

Group 1 - Core Requirements: All Majors Take All Courses

Engineering students take all Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice. Math prerequisites: While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. To prepare for entry into calculus, students should follow math placement testing and advising recommendations at their college.

<u>Kaskaskia College</u>			<u>Semester</u>	<u>Missouri S&T</u>			
MATH 166	Calculus and Analytical Geometry I	5		MATH 1214	Calculus I	4	
MATH 267	Calculus and Analytical Geometry II	4		MATH 1215	Calculus II	4	
MATH 268	Calculus and Analytical Geometry III	4		MATH 2222	Calculus III	4	
MATH 269	Differential Equations	3		MATH 3304	Elementary Differential Equations	3	
PHYS 201	University Physics I	5		PHYSICS 1135	Engineering Physics I	4	
PHYS 202	University Physics II	5		PHYSICS 2135	Engineering Physics II	4	
CHEM 111	Chemistry I (Inorganic)	5		CHEM 1310, 1319	General Chemistry I and Lab	5	
ENGL 101	English Composition	3		ENGLISH 1120	Exposition and Argumentation	3	
ECON 206 or	Principles of Economics (Micro) or	3		ECON 1100 or	Principles of Microeconomics or	3	
ECON 205	Principles of Economics (Macro)	3		ECON 1200	Principles of Macroeconomics	3	
Total Hours			37	Total Hours			34

Group 2 - Major Requirements: Take All Courses for Major of Choice

Engineering students take all Group 1 - Core Requirements (above) and Group 2 - Major Requirements for chosen major from list below. See course requirements on following pages.

Aerospace Engineering
Architectural Engineering
Ceramic Engineering
Chemical Engineering
Chemical Engineering/Biochemistry Emphasis
Civil Engineering
Computer Engineering
Electrical Engineering

Engineering Management
Environmental Engineering
Geological Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering
Nuclear Engineering
Petroleum Engineering

Engineering Major Requirements are detailed on the following pages.

Free Electives: Some programs allow Free Electives as indicated within each major. Free Electives should be selected in consultation with your advisor and may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.

Humanities/Social Science (HSS) Electives: HSS electives may include any art, English and technical communication, etymology, foreign language, music, philosophy, speech and media studies, or theatre. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions. See Missouri S&T online catalog at <https://catalog.mst.edu/undergraduate/degreeprogramsandcourses/> for more information.

Aerospace Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
ENGR 210	Electrical Circuits	3	EE 2800	Electrical Circuits	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 236	Linear Algebra	3	MATH 3108	Linear Algebra I <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	3
	Literature Elective	3		Literature Elective	3
	Ethics Elective	3		Ethics Elective <small>Engineering, business, bio, social or other ethics approved by advisor.</small>	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	58

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.

Architectural Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 102 or HIST 103 or HIST 104	History of Western Civilization or History of the United States or History of the United States	3	HISTORY 1200* <small>(or HISTORY 1300 or HISTORY 1310)</small>	Modern Western Civilization* <small>(or American History to 1877 or American History since 1877)</small> <small>*HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.</small>	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3
PSCI 103	Geology	4	GEOLOGY 1110 <small>(GEO ENG 1150)</small>	Physical and Environmental Geology	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	19		Group 2 Major Requirements	17
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	56		Total Hours*	51

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.

Ceramic Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
CHEM 208	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I <small>(Will satisfy the advanced chemistry elective requirement.)</small>	3
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320	General Chemistry II	3
ENGL 102 or SPCH 103 or HSS Elective	English Composition II or Speech or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or Principles of Speech or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	21
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	55

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.

Chemical Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320	General Chemistry II	3
CHEM 208	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I and Lab* <small>*The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).</small>	4
CHEM 209 or BIOL 215 or CHEM 210	Organic Chemistry II (5) or Microbiology (4) or Biochemistry (5)	4	CHEM 2220 or BIO SCI 3313, 3319 or CHEM 4610, 4619	Organic Chemistry II (3) Microbiology and Lab (5) or General Biochemistry and Lab <small>(Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)</small>	8
SPCH 103	Speech	3	SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	23		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	60		Total Hours*	58

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.

Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320	General Chemistry II	3
CHEM 208	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) <small>*The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).</small>	4
CHEM 209 or BIOL 215 or CHEM 210	Organic Chemistry II (5) or Microbiology (4) or Biochemistry (4)	5	CHEM 2220 or BIO SCI 3313, 3319 or CHEM 4610, 4619	Organic Chemistry II (3) or Microbiology and Lab (5) or General Biochemistry and Lab <small>(Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)</small>	3
SPCH 103	Speech	3	SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	24		Group 2 Major Requirements	19
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	53

*S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree.

Civil Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	22		Group 2 Major Requirements	20
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	59		Total Hours*	54

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.

Computer Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
SPCH 103	Speech	3	SPMS 1185	Principles of Speech	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGR 203 or ENGR 204 or CHEM 208	Statics and Dynamics or Organic Chemistry I (5)	3	CIV ENG 2200 or MECH ENG 2350 or CHEM 2210, 2219	Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) or Organic Chemistry I and Lab (4) <small>Satisfies a required engineering/science elective.</small>	3
ENGR 210	Electrical Circuits	3	EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MATH 236	Linear Algebra	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics <small>(Will satisfy a required math elective.)</small>	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	58

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.

Electrical Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
SPCH 103	Speech	3	SPMS 1185	Principles of Speech	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGR 203 and ENGR 204 <small>(BOTH of the courses above or ONE of the courses below.)</small> OR CHEM 208	Statics and Dynamics <small>(Both courses above combined or any one of the following courses will satisfy a required engineering science elective.)</small> OR Organic Chemistry I (5)	3	CIV ENG 2200 and MECH ENG 2350 <small>(BOTH of the courses above or ONE of the courses below.)</small> OR CHEM 2210	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) <small>(Both courses above combined or any one of the following courses will satisfy a required engineering science elective.)</small> OR Organic Chemistry I and Lab (3) or	3
ENGR 210	Electrical Circuits	3	EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MATH 236	Linear Algebra	3	MATH 3108	Linear Algebra	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	58

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.

Engineering Management Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSYH 101	Psychology	3	PSYCH 1101	General Psychology	3
HIST 102 or HIST 103 or HIST 104 or	History of Western Civilization or History of the United States or History of the United States or	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or	Modern Western Civilization or American History to 1877 or American History since 1877 or	3
POLS 101	American Government		POL SCI 1200	American Government	
SPCH 103	Speech	3	SPMS 1185	Principles of Speech	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
ENGR 210	Electrical Circuits	3	EE 2800	Electrical Circuits	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	30		Group 2 Major Requirements	29
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	63

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.

Environmental Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 102 or HIST 103 or HIST 104	History of Western Civilization or History of the United States or History of the United States	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History since 1877	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320	General Chemistry II	3
BIOL 101	Biology	4	BIO SCI 1113	General Biology	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	31		Group 2 Major Requirements	26
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	68		Total Hours*	60

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.

Geological Engineering Group 2 Major Requirements

Kaskaskia College		Semester	Missouri S&T	
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government
PSCI 103	Geology	4	GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials
BIOL 101 or CHEM 112 or CHEM 208	Biology or Chemistry II (Physical and Analytical) or Organic Chemistry I	4	BIO SCI 1113 or CHEM 1320 or CHEM 2210	General Biology or General Chemistry II or Organic Chemistry I <small>or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement.</small>
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	26		Group 2 Major Requirements
	Group 1 Core Requirements	37		Group 1 Core Requirements
	Total Hours	63		Total Hours*
				57

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Geological Engineering degree.

Mechanical Engineering Group 2 Major Requirements

Kaskaskia College		Semester	Missouri S&T	
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech
ENGR 210	Electrical Circuits	3	EE 2800	Electrical Circuits
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials
MATH 236	Linear Algebra	3	MATH 3108	Linear Algebra I <small>(Will satisfy the Advanced Math/Computer Science elective requirement.)</small>
	Literature Elective	3		Literature Elective
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	24		Group 2 Major Requirements
	Group 1 Core Requirements	37		Group 1 Core Requirements
	Total Hours	61		Total Hours*
				58

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.

Metallurgical Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
CHEM 112	Chemistry II (Physical and Analytical)	5	CHEM 1320	General Chemistry II	3
CHEM 208 or ENGR 210	Organic Chemistry I or Electrical Circuits	3	CHEM 2210 or EE 2800	Organic Chemistry I or Electrical Circuits	3
	Humanities/Social Science Elective	3		Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.	
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	5		Humanities/Social Science Elective	3
	Group 2 Major Requirements	31		Maximum Free Electives	3
	Group 1 Core Requirements	37		Group 2 Major Requirements	27
	Total Hours	68		Group 1 Core Requirements	34
				Total Hours*	61

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.

Mining Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	23
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	57

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.

Nuclear Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102 or SPCH 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
MATH 236	Linear Algebra	3	MATH 3108	Linear Algebra I	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
ENGR 210	Electrical Circuits	3	EE 2800	Electrical Circuits	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	6		Maximum Free Electives	6
	Group 2 Major Requirements	30		Group 2 Major Requirements	30
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	64

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Nuclear Engineering degree.

Petroleum Engineering Group 2 Major Requirements

<u>Kaskaskia College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 102 or HIST 103 or HIST 104 or POLS 101	History of Western Civilization or History of the United States or History of the United States or American Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
PSCI 103	Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENGR 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENGR 204	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
ENGR 205	Mechanics of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	23
	Group 1 Core Requirements	37		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	57

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.