

Mineral Area College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2017

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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MAT 1650	Analytical Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I <small>Grade of C or better is required.</small>	4
MAT 2150	Analytical Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II <small>Grade of C or better is required.</small>	4
MAT 2250	Analytical Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III <small>Grade of C or better is required.</small>	4
MAT 2330	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHS 2230	General Physics I	4	PHYSICS 1135	Engineering Physics I <small>Grade of C or better is required.</small>	4
PHS 2240	General Physics II	4	PHYSICS 2135	Engineering Physics II <small>Grade of C or better is required.</small>	4
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
TEC 1300 and	Computer Aided Design and Drafting and				
TEC 2050	Engineering Design & Development	3	MECH ENG 1720	Engineering Design with Computer Appl	3
ENG 1330	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
BUS 2940 or	Principles of Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
BUS 2930	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
Total Hours		40			Total Hours 37

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 history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language. Missouri S&T approved HSS courses are listed at ugs.mst.edu. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions.

Aerospace Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 1230 or HIS 1240 or HIS 1140 or	American History I or American History II or Western Civilization II or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or
POS 1180 ENG 1340 or ENG 1440	American Political Svstems English Composition or Public Speaking	3	POL SCI 1200 ENGLISH 1160 or SPMS 1185	American Government Writing and Research or Principles of Speech
CSC 2400 EGN 2340 EGN 2130 EGN 2230	Computer Programming in C++ Intro to Electrical Engineering Engineering Mechanics- Statics Engineering Mechanics-Dynamics	3 4 3 3	CS 1971, 1981 EE 2800 CIV ENG 2200 AERO ENG 2360	Intro to Programming Method and Lab (C++) Circuit Analysis I Engineering Mechanics-Statics Dynamics
<i>See your advisor for course options.</i>				Literature Elective
<i>See your advisor for course options.</i>				Ethics Elective
<i>No free electives applied to the degree.</i>				Maximum Free Electives
Group 2 Major Requirements		19	Group 2 Major Requirements	
Group 1 Core Requirements		40	Group 1 Core Requirements	
Total Hours		59	Total Hours*	
			61	

*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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 1140 or HIS 1230 or HIS 1240	Western Civilization II or American History I or American History II	3	HISTORY 1200* (or HISTORY 1300 or HISTORY 1310)	Modern Western Civilization* (or American History to 1877 or American History since 1877)
EGN 2130 EGN 2230	Engineering Mechanics- Statics Engineering Mechanics-Dynamics	3 3	CIV ENG 2200 MECH ENG 2350	Engineering Mechanics-Statics Engineering Mechanics-Dynamics
TEC 154	Surveying I	3	CIV ENG 2401 ENGLISH 1160 or SPMS 1185 or HSS Elective	Fundamentals of Surveying Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	PHYSICS 1505	Introductory Astronomy (or other chemistry, geology, biology, physics, or astronomy course that is not otherwise required for the degree)
<i>No free electives applied to the degree.</i>				Applies to the degree as a basic science elective
Group 2 Major Requirements		18	Group 2 Major Requirements	
Group 1 Core Requirements		40	Group 1 Core Requirements	
Total Hours		58	Total Hours*	
			55	

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

Ceramic Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHS 2350	Organic Chemistry I	5	CHEM 2210/2219	Organic Chemistry I and Lab (Not a specific requirement. Will satisfy technical elective requirement.)	5
PHS 1390	General Chemistry II and Qualitative Analysis	4	CHEM 1320	General Chemistry II	3
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>					
<i>No free electives applied to the degree.</i>					
Group 2 Major Requirements		18	Group 2 Major Requirements		20
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		58	Total Hours*		57

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

Chemical Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
PHS 1390	General Chemistry II and Qualitative Analysis	4	CHEM 1320	General Chemistry II	5
PHS 2350	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
PHS 2360	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3
CSC 2400	Computer Programming in C++	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
<i>See your advisor for course options.</i>					
<i>See your advisor for course options.</i>					
<i>No free electives applied to the degree.</i>					
Group 2 Major Requirements		23	Group 2 Major Requirements		26
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		63	Total Hours*		63

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

Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
PHS 1390	General Chemistry II and Qualitative Analysis	4	CHEM 1320	General Chemistry II	5
PHS 2350	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
PHS 2360	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3
CSC 2400	Computer Programming in C++	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
<i>See your advisor for course options.</i>					
<i>See your advisor for course options.</i>					
<i>No free electives applied to the degree.</i>					
Group 2 Major Requirements		23	Group 2 Major Requirements		26
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		63	Total Hours*		63

*S&T advisor permission is required to transfer more than 71 credits toward the S&T Chemical/Biochemical Engineering degree.

Civil Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Public Speaking	3
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
PHS 2460	Physical Geology	5	GEO 1111/GE 1150	Intro to Physical Geology	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
TEC 154	Surveying I	3	CIV ENG 2401	Fundamentals of Surveying	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>				Maximum Free Electives	0
Group 2 Major Requirements		20	Group 2 Major Requirements		21
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		60	Total Hours*		58

*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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1440	Public Speaking	3	SPMS 1185	Public Speaking	3
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
EGN 2130 & EGN 2230	Engineering Mechanics- Statics & Engineering Mechanics- Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
EGN 2340	Intro to Electrical Engineering	4	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
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Maximum Free Electives	3
Group 2 Major Requirements		19	Group 2 Major Requirements		24
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		59	Total Hours*		61

*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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1440	Public Speaking	3	SPMS 1185	Public Speaking	3
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
EGN 2130 & EGN 2230	Engineering Mechanics- Statics & Engineering Mechanics- Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
EGN 2340	Intro to Electrical Engineering	4	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
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Maximum Free Electives	3
Group 2 Major Requirements		19	Group 2 Major Requirements		24
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		59	Total Hours*		61

*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

Mineral Area College		Semester	Missouri S&T		
PSY 1130	General Psychology I	3	PSYCH 1101	General Psychology	3
HIS 1230 or HIS 1240 or HIS 1140 or	American History I or American History II or Western Civilization II or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or	3
POS 1180	American Political Systems		POL SCI 1200	American Government	
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
EGN 2340	Intro to Electrical Engineering	4	EE 2800	Circuit Analysis I	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Maximum Free Electives	3
Group 2 Major Requirements		19	Group 2 Major Requirements		24
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		59	Total Hours*		61

*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

Mineral Area College		Semester	Missouri S&T		
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Public Speaking	3
HIS 1230 or HIS 1240 or HIS 1140	American History I or American History II or Western Civilization II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 (preferred) or American History since 1877 (preferred) or Modern Western Civilization	3
PHS 2460	Physical Geology	5	GEO 1111/GE 1150	Intro to Physical Geology	3
PHS 1390	General Chemistry II and Qualitative Analysis	4	CHEM 1320	General Chemistry II	3
BIO 1150	General Biology	5	BIO SCI 1113	General Biology	4
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>				Maximum Free Electives	0
Group 2 Major Requirements		26	Group 2 Major Requirements		25
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		66	Total Hours*		62

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

Geological Engineering Group 2 Major Requirements

Mineral Area College		Semester	Missouri S&T		
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Public Speaking	3
HIS 1230 or HIS 1240 or HIS 1140 or	American History I or American History II or Western Civilization II or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or	3
POS 1180	American Political Svstems		POL SCI 1200	American Government	
PHS 2410	Physical Geology and Lab	5	GEO 1110, 1119	Physical and Environmental Geology	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
BIO 1150 or PHS 1390 or PHS 2350	General Biology or General Chemistry and Qualitative Analysis or Organic Chemistry I	5	BIO SCI 1113 or CHEM 1320 or CHEM 2210	General Biology or General Chemistry II or Organic Chemistry I	3
<i>See your advisor for course options.</i>				<i>or any 3-hour course in chemistry, geochemistry, or biology</i> Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>				Maximum Free Electives	0
Group 2 Major Requirements		22	Group 2 Major Requirements		21
Group 1 Core Requirements		40	Group 1 Core Requirements		37
Total Hours		62	Total Hours*		58

*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

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180 ENG 1340 or ENG 1440	American History I or American History II or Western Civilization II or American Political Systems English Composition or Public Speaking	3 3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 ENGLISH 1160 or SPMS 1185	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government Writing and Research or Principles of Speech
CSC 2400	Computer Programming in C++	3		
EGN 2340	Intro to Electrical Engineering	4	CS 1971, 1981	Intro to Programming Method and Lab (C++)
EGN 2130	Engineering Mechanics- Statics	3	EE 2800	Circuit Analysis I
EGN 2230	Engineering Mechanics-Dynamics	3	CIV ENG 2200	Engineering Mechanics-Statics
			MECH ENG 2360	Dynamics
				Literature Elective
				Humanities/Social Science Elective
				Maximum Free Electives
				Group 2 Major Requirements
				Group 1 Core Requirements
				Total Hours*
		10 40 50		15 37 52
				Total Hours*
				52

*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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENG 1340 or ENG 1440	English Composition or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Public Speaking
HIS 1230 or HIS 1240 or HIS 1140 or POS 1180	American History I or American History II or Western Civilization II or American Political Systems	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
PHS 1390	General Chemistry II and Qualitative Analysis	4	CHEM 1320	General Chemistry II
PHS 2350 or EGN 2340	Organic Chemistry I or Intro to Electrical Engineering	4	CHEM 2210 or EE 2800	Organic Chemistry I or Electrical Circuits
				<i>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement</i>
				Humanities/Social Science Elective
				Humanities/Social Science Elective
				Maximum Free Electives
				Group 2 Major Requirements
				Group 1 Core Requirements
				Total Hours*
		17 40 57		26 37 63
				Total Hours*
				63

*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>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or	American History I or		HISTORY 1300 or	American History to 1877 or	
HIS 1240 or	American History II or	3	HISTORY 1310 or	American History since 1877 or	
HIS 1140 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or	3
POS 1180	American Political Systems		POL SCI 1200	American Government	
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200*	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350*	Engineering Mechanics-Dynamics	3
			*The combination of CIV ENG 2200 and MECH ENG 2350 will be substituted for MECH ENG 2340. The Combination of CIV ENG 22000 and 2210 and MECH ENG 2350 will be substituted for MI ENG 3812		
PHS 2460	Physical Geology	5	GEO 1111/GE 1150	Intro to Physical Geology	3
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	0
			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.		
		17			21
		40			37
Total Hours		57	Total Hours*		58

Nuclear Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or	American History I or		HISTORY 1300 or	American History to 1877 or	
HIS 1240 or	American History II or	3	HISTORY 1310 or	American History since 1877 or	
HIS 1140 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or	3
POS 1180	American Political Systems		POL SCI 1200	American Government	
CSC 2400	Computer Programming in C++	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Nuclear Engineering degree.		
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	6
		12			21
		40			37
Total Hours		52	Total Hours*		58

Petroleum Engineering Group 2 Major Requirements

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1340	English Composition	3	ENGLISH 1160	Writing and Research	3
HIS 1230 or	American History I or		HISTORY 1300 or	American History to 1877 or	
HIS 1240 or	American History II or	3	HISTORY 1310 or	American History since 1877 or	
HIS 1140 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or	3
POS 1180	American Political Svstems		POL SCI 1200	American Government	
PHS 2410	Physical Geology and Lab		GEO 1110, 1119	Physical and Environmental Geology	3
EGN 2130	Engineering Mechanics- Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EGN 2230	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Petroleum Engineering degree.		
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	0
		6			15
		40			37
Total Hours		46	Total Hours*		52