State Fair Community 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.

	State Fair Community College		Semester		Missouri S&T		
MATH 130	Calculus and Analytic Geometry I	5		MATH 1214	Calculus I Grade of C or better is required.		4
MATH 131	Calculus and Analytic Geometry II	5		MATH 1215	Calculus II Grade of C or better is required.		4
MATH 132	Calculus and Analytic Geometry III	5		MATH 2222	Calculus III Grade of C or better is required.		4
MATH 134	Differential Equations	3		MATH 3304	Elementary Differential Equations		3
PHYS 118	General Physics I with Lab	5		PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 119	General Physics II with Lab	5		PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
CHEM 123	General Chemistry I with Lab	5		CHEM 1310, 1319	General Chemistry I and Lab		5
ENGL 101	English Composition I	3		ENGLISH 1120	Exposition and Argumentation		3
ECON 102 or ECON 101	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics		3
1		Total Hours 39				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 Engine	<u>eri</u>	ng Gro	oup z majoi	Requirements	
	State Fair Community College		Semester	•	Missouri S&T	
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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 COM 101 or ENGL 112	English Composition II or Public Speaking or Technical Writing	3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Principles of Speech or Technical Writing	3
PHYS 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature (or other literature elective)	3		ENGLISH 1231 or ENGLISH 1221 or ENGLISH 1211	World Literature I or American Literature: 1600 to 1865 or British Literature I: The Beginnings to 1800 (or other literature elective)	3
	Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3			Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	15 39 54			Group 2 Major Requirements Group 1 Core Requirements Total Hours*	15 34 49
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	

	Architectural Engine	eerir	ng Gr	oup 2 Majo	or Requirements	
	State Fair Community College	S	emester		Missouri S&T	
HIST 109 (or HIST 101 or HIST 102)	World Civilization After 1500 (or US History Before 1877 or US History Since 1877) "HIST 109 is preferred; 101 or 102 will also be accepted.	3		HISTORY 1200* (or HISTORY 1300 or HISTORY 1310)	Modern Western Civilization* (or American History to 1877 or American History since 1877) *HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.	3
PHYS 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	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
EASC 118	Environmental Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	12			Group 2 Major Requirements	12
	Group 1 Core Requirements	39			Group 1 Core Requirements	34
	Total Hours	51			Total Hours*	46
					*S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	

	Ceramic Enginee	ring	g Group	2 Major F	Requirements	
	State Fair Community College		Semester		Missouri S&T	
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government	3	HIS	STORY 1200 or STORY 1300 or STORY 1310 or DL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
PHYS 203	Statics	3	CIV	V ENG 2200	Engineering Mechanics-Statics	3
CHEM 221	Organic Chemistry I with Lab	5	CH	HEM 2310	Organic Chemistry I (Will satisfy the advanced chemistry elective requirement.)	3
CHEM 124	General Chemistry II with Lab	5	СН	HEM 1320, 1510*	General Chemistry II (3) and Qualittive Analysis (2)* Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.	3
ENGL 102 or COM 101 or HSS Elective	English Composition II or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	SPI	NGLISH 1160 or PMS 1185 or SS Elective	Writing and Research or Public Speaking 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
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	22 39 61			Group 2 Major Requirements Group 1 Core Requirements Total Hours*	18 34 52
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	

	Chemical Engi	neeri	ng Gro	up 2 Major	Requirements	
	State Fair Community College		Semester		Missouri S&T	
ENGL 112	Technical Writing	3		ENGLISH 3560	Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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 124	General Chemistry II with Lab	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualittive Analysis (2)* Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.	3
CHEM 221	Organic Chemistry I with Lab	5		CHEM 2210, 2219*	Organic Chemistry I and Lab* *The lab is not required for the degree, will transfer as 1 of the 9 required science elective credits /	4
CHEM 222	Organic Chemistry II with Lab	5		CHEM 2220	Organic Chemistry II (3) Will transfer as 3 of the 9 required science elective credits.	3
CIS 120 or CIS155	Programming in Python or Programming in C#	3		CS 1500	Computational Problem Solving	3
COM 101	Public Speaking	3		SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	30			Group 2 Major Requirements	25
	Group 1 Core Requirements	39			Group 1 Core Requirements	34
	Tota	l Hours 69			Total Hours*	59
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	

	Chemical Engine	ering -	Bioch	emical Eng	ineering Emphasis					
Group 2 Major Requirements										
	State Fair Community College		Semeste	<u>r</u>	Missouri S&T					
ENGL 112	Technical Writing	3		ENGLISH 3560	Technical Writing	3				
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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 124	General Chemistry II with Lab	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualittive Analysis (2)* Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.	3				
CHEM 221	Organic Chemistry I with Lab	5		CHEM 2210, 2219*	Organic Chemistry I and Lab* *The lab is not required for the degree, will transfer as 1 of the 9 required science elective credits /	4				
CHEM 222	Organic Chemistry II with Lab	5		CHEM 2220	Organic Chemistry II (3) Will transfer as 3 of the 9 required science elective credits.	3				
CIS 120 or CIS155	Programming in Python or Programming in C#	3		CS 1500	Computational Problem Solving	3				
COM 101	Public Speaking	3		SP&MS 1185	Principles of Speech	3				
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3				
	No free electives applied to the degree.	0			Maximum Free Electives	0				
	Group 2 Major Requirements	30			Group 2 Major Requirements	25				
	Group 1 Core Requirements	39			Group 1 Core Requirements	34				
	Т	otal Hours 69			Total Hours* *S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree.	59				

	Civil Enginee	ring G	roup 2 Major R	equirements	
	State Fair Community College	S	Semester .	Missouri S&T	
ENGL 102 or COM 101 or ENGL 112	English Composition II or Public Speaking or Technical Writing	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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
EASC 118	Environmental Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
PHYS 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	39		Group 1 Core Requirements	34
	Total Ho	ours 54		Total Hou *S&T advisor permission is required to transfer more than 69 credits toward the clivil Engineering degree.	

	Computer E	nginee	ring	g Group 2	Major	Requirements	
	State Fair Community College		S	Semester		Missouri S&T	
COM 101	Public Speaking		3	SPMS 1	185	Public Speaking	3
ENGL 102 or ENGL 112	English Composition II or Technical Writing		3	ENGLIS ENGLIS	H 1160 or H 3560	Writing and Research or Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government		3	HISTOR	Y 1200 or Y 1300 or Y 1310 or I 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CIS 120 or CIS155	Programming in Python or Programming in C#		3	CS 1500)	Computational Problem Solving	3
PHYS 203 or CHEM 221 or BIO 210	Statics or Organic Chemistry I with Lab or Principles of Genetics w/ Lab		5	CIV ENG CHEM 2 BIO SCI		Engineering Mechanics-Statics (3) or Organic Chemistry I (3) or General Genetics (3)	3
	Humanities/Social Science Elective		3			Humanities/Social Science Elective	3
	Maximum Free Electives		3			Maximum Free Electives	3
	Group 2 Major Requirements Group 1 Core Requirements		23 39			Group 2 Major Requirements Group 1 Core Requirements	21 34
		Total Hours	62			Total Hours* *\$&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	

	Electrical Enginee	rir	ng Group 2 Ma	jor Requirements	
	State Fair Community College		Semester	Missouri S&T	
COM 101	Public Speaking	3	SPMS 1185	Public Speaking	3
ENGL 102 or ENGL 112	English Composition II or Technical Writing	3	ENGLISH 1160 ENGLISH 3560	or Writing and Research or Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government	3	HISTORY 1200 HISTORY 1300 HISTORY 1310 POL SCI 1200	or American History to 1877 or	3
CIS 120 or CIS155	Programming in Python or Programming in C#	3	CS 1500	Computational Problem Solving	3
CHEM 221 or BIO 210 or PHYS 203*	Organic Chemistry I with Lab or Principles of Genetics w/ Lab or Statics* AND Dynamics (see note below) "PHYS 250 combined with S&T MECH ENG 2350 will satisfy an Engineering Science Elective requirement. BOTH courses are required to satisfy this requirement.	5	CHEM 2210 or BIO SCI 2223 or CIV ENG 2200*	Organic Chemistry I (3) or General Genetics (3) or Engineering Mechanics-Statics* (see note below) "PHYS 250 combined with S&T MECH ENG 2350 will satisfy an Engineering Science Elective requirement. BOTH courses are required to satisfy this requirement.	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	23		Group 2 Major Requirements	21
	Group 1 Core Requirements	39		Group 1 Core Requirements	34
	Total Hours	62		Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	55

	Engineering I	Manage	ement	Group	2 M aj	or Requirements	
	State Fair Community College		Seme	ster		Missouri S&T	
PSY 101	General Psychology		3	PSYCI	H 1101	General Psychology	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government		3	HISTO HISTO	RY 1200 or RY 1300 or RY 1310 or CI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
COM 101	Public Speaking			SPMS	1185	Principles of Speech	3
ENGL 102 or ENGL 112	English Composition II or Technical Writing		3		SH 1160 or SH 3560	Writing and Research or Technical Writing	3
PHYS 203	Statics		3	CIV EN	NG 2200	Engineering Mechanics-Statics	3
	Humanities/Social Science Elective		3			Humanities/Social Science Elective	3
	Maximum Free Electives		3			Maximum Free Electives	3
	Group 2 Major Requirements		18			Group 2 Major Requirements	21
	Group 1 Core Requirements		39			Group 1 Core Requirements	34
	·	Total Hours	57			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	55

	Environmental Eng	inee	ering G	roup 2 Maj	or Requirements	
	State Fair Community College		Semester		Missouri S&T	
ENGL 102 or COM 101 or ENGL 112	English Composition II or Public Speaking or Technical Writing	3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HIST 109 or HIST 101 or HIST 102	World Civilization After 1500 or US History Before 1877 or US History Since 1877	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History since 1877	3
EASC 118	Environmental Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHEM 124	General Chemistry II with Lab	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualittive Analysis (2)* Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.	3
BIO 112 or BIO 125	Intro to Biology with Lab or Biology I with Lab	5		BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *BIO SCI 1219 is not an S&T degree requirement; course will transfer as elective credit.	3
PHYS 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	25			Group 2 Major Requirements	21
	Group 1 Core Requirements	39			Group 1 Core Requirements	34
	Total Hou	urs 64			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	55

	Geological Engin	eeri	ng Group 2 Majo	or Requirements	
	State Fair Community College		Semester	Missouri S&T	
ENGL 112	Technical Writing	3	ENGLISH 3560	Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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
EASC 118	Environmental Geology	3	GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
PHYS 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
BIO 112 or BIO 125 or CHEM 124 or CHEM 221	Intro to Biology with Lab or Biology I with Lab or General Chemistry II with Lab or Organic Chemistry I with Lab or any 3-hour course in chemistry, geochemistry, or biology.	5	BIO SCI 1113 or CHEM 1320 or CHEM 2210	General Biology or General Chemistry II or Organic Chemistry I or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement.	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	23		Group 2 Major Requirements	21
	Group 1 Core Requirements	39		Group 1 Core Requirements	34
	Total Ho	urs 62		Total Hours* "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									
	State Fair Community College			Semester	•	Missouri S&T			
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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 COM 101 or ENGL 112	English Composition II or Public Speaking or Technical Writing		3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Principles of Speech or Technical Writing	3		
PHYS 203	Statics		3		CIV ENG 2200	Engineering Mechanics-Statics	3		
LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature (or other literature elective)		3		ENGLISH 1231 or ENGLISH 1221 or ENGLISH 1211 or	World Literature I or American Literature: 1600 to 1865 or British Literature I: The Beginnings to 1800 (or other literature elective)	3		
	Humanities/Social Science Elective		3			Humanities/Social Science Elective	3		
	No free electives applied to the degree.		0			Maximum Free Electives	0		
	Group 2 Major Requirements Group 1 Core Requirements	Total Hours	15 39 54			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	15 34 49		

	Metallurgical	Engine	er	ing G	roup 2 Maj	or Requirements	
	State Fair Community College			Semester	•	Missouri S&T	
ENGL 102 or COM 101 or ENGL 112	English Composition II or Public Speaking or Technical Writing		3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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
PHYS 203	Statics		3		CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 124	General Chemistry II with Lab		5		CHEM 1320, 1510*	General Chemistry II (3) and Qualittive Analysis (2)* Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.	3
CHEM 221	Organic Chemistry I with Lab		5		CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) CHEM 2210 is not specifically required for the degree but will satisfy Out-of- Department Technical Elective Requirement. "CHEM 2219 is not a degree requirement, transfers as general credit.	4
	Humanities/Social Science Elective		3			Humanities/Social Science Elective	3
	Humanities/Social Science Elective		3			Humanities/Social Science Elective	3
	Maximum Free Electives		5			Maximum Free Electives	3
	Group 2 Major Requirements		30			Group 2 Major Requirements	25
	Group 1 Core Requirements		39			Group 1 Core Requirements	34
		Total Hours	69			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	59

Mining Engineering Group 2 Major Requirements									
	State Fair Community College		Semester		Missouri S&T				
ENGL 102 or ENGL 112 or ENGL 110	English Composition II or Technical Writing or Communication for Business and Industry	3		ENGLISH 1160 or ENGLISH 3560 or ENGLISH 1600	Writing and Research or Technical Writing or Intro to Technical Communications	3			
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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			
PHYS 203	Statics	3		CIV ENG 2200*	Engineering Mechanics-Statics	3			
EASC 118	Environmental Geology	3		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			
	No free electives applied to the degree.	0			Maximum Free Electives	0			
	Group 2 Major Requirements	18			Group 2 Major Requirements	18			
	Group 1 Core Requirements	39			Group 1 Core Requirements	34			
	Total Hours	57			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.	52			

Nuclear Engineering Group 2 Major Requirements								
	State Fair Community College		<u>Semester</u>	Missouri S&T				
ENGL 102 or ENGL 112 or ENGL 110	English Composition II or Technical Writing or Communication for Business and Industry	3	ENGLISH 116 SPMS 1185 or ENGLISH 356	Public Speaking or	3			
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National Government	3	HISTORY 120 HISTORY 130 HISTORY 131 POL SCI 1200	or American History to 1877 or Or American History since 1877 or	3			
PHYS 203	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	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	21		Group 2 Major Requirements	21			
	Group 1 Core Requirements	39		Group 1 Core Requirements	34			
	Total Ho	urs 60		Total Hours *S&T advisor permission is required to transfer more than 68 credits toward the S& Nuclear Engineering degree.				

Petroleum Engineering Group 2 Major Requirements									
	State Fair Community College		Semester		Missouri S&T				
ENGL 102 or ENGL 112 or ENGL 110	English Composition II or Technical Writing or Communication for Business and Industry	3		ENGLISH 3560 or ENGLISH 1160 or ENGLISH 1600	Technical Writing (preferred) or Writing and Research or Intro to Technical Communications	3			
HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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			
EASC 118	Environmental Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3			
PHYS 203	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3			
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3			
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3			
	No free electives applied to the degree.	0			Maximum Free Electives	0			
	Group 2 Major Requirements	18			Group 2 Major Requirements	18			
	Group 1 Core Requirements	39			Group 1 Core Requirements	34			
	Total Hours	57			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	52			