

Central Methodist University — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2020

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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MA 118	Calculus and Analytic Geometry I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required. 4
MA 209	Calculus and Analytic Geometry II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required. 4
MA 308	Calculus and Analytic Geometry III	5	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required. 4
MA 315	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PH 205, 205L	Calculus Physics I and Lab	5	PHYSICS 1135	Engineering Physics I	Grade of C or better is required. 4
PH 206, 206L	Calculus Physics II and Lab	5	PHYSICS 2135	Engineering Physics II	Grade of C or better is required. 4
CH 111, 111L	General Chemistry and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
EN 110	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
EC 202 or EC 201	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours		38	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 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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
EN 110 or CT 101 or EN 306 CS 172	Expository Writing or Public Speaking or Technical Writing .NET1	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560 CS 1971, 1981	Writing and Research or Principles of Speech or Technical Writing Intro to Programming Method and Lab (C++)	3
MA 318	Linear Algebra	3	MATH 3108	Linear Algebra I (Will satisfy the Advanced Math/Comp Sci elective requirement.)	3
	Literature Elective	3		Literature Elective	3
	Ethics Elective	3		Ethics Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	56		Total Hours*	52

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HI 117 (or HI 118 or HI 102)	Development of the United States I (or Development of the United States II or World History II)	3	HISTORY 1200* (or HISTORY 1300 or HISTORY 1310)	Modern Western Civilization* (or American History to 1877 or American History since 1877)	3
EN 305 or CT 101 or HSS elective	Expository Writing or Public Speaking 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 Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3
GL 105	Exploring Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	9		Group 2 Major Requirements	9
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	47		Total Hours*	43

*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>Central Methodist University</u>	<u>Semester</u>	<u>Missouri S&T</u>	
HI 117 or HI 118 or HI 102 or PS 101	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	3
Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt		American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	
CH 341	3	Organic Chemistry I <small>(Not a specific requirement. Will satisfy the advanced chemistry elective requirement.)</small>	4
Organic Chemistry			
CH 114	4	CHEM 1320	3
General Chemistry II		General Chemistry II	
PH 307	3	PHYS 2305	3
Modern Physics		Intro to Modern Physics	
EN 305 or CT 101 or HSS elective	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	3
Expository Writing or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language		Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	
<i>See your advisor for course options.</i>	3		
<i>No free electives applied to the degree.</i>	0	Humanities/Social Science Elective	3
Group 2 Major Requirements	19	Maximum Free Electives	0
Group 1 Core Requirements	38	Group 2 Major Requirements	19
Total Hours	57	Group 1 Core Requirements	34
		Total Hours*	53

*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>Central Methodist University</u>	<u>Semester</u>	<u>Missouri S&T</u>	
EN 110 or EN 306	3	ENGLISH 1160 or ENGLISH 3560	3
Expository Writing or Technical Writing		Writing and Research or Technical Writing	
HI 117 or HI 118 or HI 102 or PS 101	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	3
Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt		American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	
CH 114	4	CHEM 1320	3
General Chemistry II		General Chemistry II	
CH 341,341L	4	CHEM 2210, 2219	5
Organic Chemistry and Lab		Organic Chemistry I and Lab	
CH 342 or BI 305	7	CHEM 2220 or BIO SCI 3313, 3319 or	9
Organic Chemistry II (3) or Microbiology with Lab (4) <small>(Will satisfy science elective requirement. Select up to 9 hours from these options.)</small>		Organic Chemistry II (4) or Microbiology and Lab (5) <small>(Will satisfy science elective requirement. Select up to 9 hours from these options.)</small>	
CS 378 or CS 172	3	CS 1500 or CS 1971, 1981	3
Data Structures & Algorithms or .NET1		Computational Problem Solving (3) or Intro to Programming Method and Lab (C++)	
CT 101	3	SP&MS 1185	3
Public Speaking		Principles of Speech	
<i>See your advisor for course options.</i>	3	Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>	0	Maximum Free Electives	0
Group 2 Major Requirements	30	Group 2 Major Requirements	32
Group 1 Core Requirements	38	Group 1 Core Requirements	34
Total Hours	68	Total Hours*	66

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
CH 114	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CH 341,341L	Organic Chemistry and Lab	4	CHEM 2210, 2219	Organic Chemistry I and Lab	5
CH 342 or BI 305	Organic Chemistry II (3) or Microbiology with Lab (4) <small>(Will satisfy science elective requirement. Select up to 9 hours from these options.)</small>	7	CHEM 2220 or BIO SCI 3313, 3319 or	Organic Chemistry II (4) or Microbiology and Lab (5) <small>(Will satisfy science elective requirement. Select up to 9 hours from these options.)</small>	9
CS 378 or CS 172	Data Structures & Algorithms or .NET1	3	CS 1500 or CS 1971, 1981	Computational Problem Solving (3) or Intro to Programming Method and Lab (C++)	3
CT 101	Public Speaking	3	SP&MS 1185	Principles of Speech	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	30		Group 2 Major Requirements	32
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	68		Total Hours*	66

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or CT 101 or EN 306	Expository Writing 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
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
GL 105	Exploring Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	50		Total Hours*	46

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
CT 101	Public Speaking	3	SPMS 1185	Public Speaking	3
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
CS 378 or CS 172	Data Structures & Algorithms or .NET1	3	CS 1500 or CS 1971, 1981	Computational Problem Solving (3) or Intro to Programming Method and Lab (C++)	3
PH 307 or CH 114	Modern Physics (3) or Organic Chemistry (3)	3	PHYSICS 2305 or CHEM 2210	Intro to Modern Physics (3) or Organic Chemistry I (4) or	3
MA 318	Linear Algebra	3	MATH 3108	Linear Algebra (Will satisfy a required math elective.)	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Maximum Free Electives	3
	Group 2 Major Requirements	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	62		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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
CT 101	Public Speaking	3	SPMS 1185	Public Speaking	3
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
PH 307 or CH 114	Modern Physics (3) or Organic Chemistry (3)	3	CS 1570, 1580	Intro to Programming and Lab (C++)	4
MA 318	Linear Algebra	3	PHYSICS 2305 or CHEM 2210	Intro to Modern Physics (3) or Organic Chemistry I (4) or	3
	<i>See your advisor for course options.</i>	3	MATH 3108	Linear Algebra	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	Group 2 Major Requirements	21		Maximum Free Electives	3
	Group 1 Core Requirements	38		Group 2 Major Requirements	25
	Total Hours	59		Group 1 Core Requirements	34
				Total Hours*	59

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PY 101	General Psychology	3	PSYCH 1101	General Psychology	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
EN 110 or CT 101 or EN 306 CS 172	Expository Writing or Public Speaking or Technical Writing .NET1	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560 CS 1971, 1981	Writing and Research or Principles of Speech or Technical Writing Intro to Programming Method and Lab (C++)	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Maximum Free Electives	3
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	56		Total Hours*	52

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or CT 101 or EN 306	Expository Writing 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
HI 117 or HI 118 or HI 102	Development of the United States I or Development of the United States II or World History II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History since 1877 or Modern Western Civilization	3
GL 105	Exploring Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CH 114	General Chemistry II	4	CHEM 1320	General Chemistry II	3
BI 101	General Biology	4	BIO SCI 1113	General Biology	4
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	20		Group 2 Major Requirements	19
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	58		Total Hours*	53

*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

<u>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or CT 101 or EN 306	Expository Writing 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
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
GL 105	Exploring Geology	3	GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
BI 101 or CH 114 or CH 341	General Biology or Chemistry II or Organic Chemistry	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>	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	19		Group 2 Major Requirements	18
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	57		Total Hours*	52

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
EN 110 or CT 101 or EN 306	Expository Writing 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
CS 172	.NET1	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
MA 318	Linear Algebra	3	MATH 3108	Linear Algebra	3
	Literature Elective	3		Literature Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	56		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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or CT 101 or EN 306	Expository Writing 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
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
CH 114 CH 341 or PH 307	General Chemistry II Organic Chemistry or Modern Physics	4 3	CHEM 1320 CHEM 2210 or PHYSICS 2305	General Chemistry II Organic Chemistry I (4) or Intro to Modern Physics (3) <i>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.</i>	3 3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	5		Maximum Free Electives	5
	Group 2 Major Requirements	24		Group 2 Major Requirements	23
	Group 1 Core Requirements	38		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 Metallurgical Engineering degree.

Mining Engineering Group 2 Major Requirements

<u>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
GL 105	Exploring Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	53		Total Hours*	49

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
MA 318	Linear Algebra	3	MATH 3108	Linear Algebra	3
PH 307	Modern Physics	3	PHYSICS 2305	Intro to Modern Physics	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	6		Maximum Free Electives	6
	Group 2 Major Requirements	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	58

*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>Central Methodist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HI 117 or HI 118 or HI 102 or PS 101	Development of the United States I or Development of the United States II or World History II or Intro to American Nat, State, and Local Govt	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
GL 105	Exploring Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	53		Total Hours*	49

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