Central Methodist University — 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.

	Central Methodist University		Semester		<u>Missouri S&T</u>		
MA 118	Calculus and Analytic Geometry I	5		MATH 1214	Calculus Grade of C or better is required.		4
MA 209	Calculus and Analytic Geometry II	5		MATH 1215	Calculus II Grade of C or better is required.		4
MA 308	Calculus and Analytic Geometry III	5		MATH 2222	Calculus 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	Microeconomics or	2		ECON 1100 or	Principles of Microeconomics or		2
EC 201	Macroeconomics	3		ECON 1200	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	Engineering Management
Architectural Engineering	Environmental Engineering
Ceramic Engineering	Geological Engineering
Chemical Engineering	Mechanical Engineering
Chemical Engineering/Biochemistry Emphasis	Metallurgical Engineering
Civil Engineering	Mining Engineering
Computer Engineering	Nuclear Engineering
Electrical 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	eri	ng Gro	oup 2 Major	Requirements	
	Central Methodist University		Semester		Missouri S&T	
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 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
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	Matricies and Linear Algebra	3		MATH 3108	Linear Algebra I or (Will satisfy the Advanced Math/Comp Sci elective requirement.)	3
EN 225	World Literature (or other literature elective)	3		ENGLISH 1231	World Literature I (or other literature elective)	3
	Ethics Elective	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	18			Group 2 Major Requirements	18
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hours	56			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	52

	Architectural Engine	eering	<mark>g Group 2 M</mark> a	ajor Requirements	
HI 117 (or HI 118 or HI 102)	Central Methodist University Development of the United States I (or Development of the United States II or World History II)	3 3	Mester HISTORY 1200* (or HISTORY 1300 HISTORY 1310)	Missouri S&T Modern Western Civilization* or (or American History to 1877 or American History since 1877) *HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.	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
GL 105	Exploring 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 Group 1 Core Requirements Total Hours	9 38 47		Group 2 Major Requirements Group 1 Core Requirements Total Hours*	9 34 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		U	• •		
	Central Methodist University		Semester	<u>r</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 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
CH 341	Organic Chemistry	3		CHEM 2210	Organic Chemistry I (Will satisfy the advanced chemistry elective requirement.)	3
CH 114	General Chemistry II	3		CHEM 1320	General Chemistry II	3
PH 307	Modern Physics	3		PHYS 2305	Intro to Modern Physics	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
	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	38			Group 1 Core Requirements Total Hours*	34 52
	Total Hours	56			*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	52

	Chemical Enginee	erir	<mark>ig Gro</mark>	up 2 Major	Requirements	
	Central Methodist University		Semester		<u>Missouri S&T</u>	
EN 306	Technical Writing	3		ENGLISH 3560	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 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
CH 114	General Chemistry II	3		CHEM 1320	General Chemistry II	3
CH 341, 341L	Organic Chemistry and Lab	4		CHEM 2210, 2219*	Organic Chemistry I and Lab* *The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).	4
CH 342 or BI 305	Organic Chemistry II (3) or Microbiology wih Lab (4) (Villi satisfy science elective requirement. Select up to 9 hours from these options.)	7		CHEM 2220 or BIO SCI 3313, 3319	Organic Chemistry II (3) or Microbiology and Lab (5) or (Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)	8
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 Methodology and Lab* (C++) *Course will be subtsituted for CS 1500	3
CT 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	29			Group 2 Major Requirements	30
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hours	67			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	64

	Chemical Engineering Group			emical Engi Requireme	. .	
	Central Methodist University		Semester		Missouri S&T	
EN 306	Technical Writing	3		ENGLISH 3560	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 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
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* *The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).	4
CH 342 or BI 305	Organic Chemistry II (3) or Microbiology wih Lab (4) (Will satisty science elective requirement. Select up to 9 hours from these options.)	7		CHEM 2220 or BIO SCI 3313, 3319	Organic Chemistry II (3) or Microbiology and Lab (5) or (Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)	8
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 Methodology and Lab* (C++) *Course will be substituted for CS 1500.	3
CT 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	30
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hours	68			Total Hours* *S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree.	64

	Civil Engineeri	ng	Group	2 Major F	Requirements	
	Central Methodist University		Semester		<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 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
GL 105	Exploring Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	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	12 38 s 50			Group 2 Major Requirements Group 1 Core Requirements Total Ho	12 34 urs* 46
	Total Hour	5 50			*S&T advisor permission is required to transfer more than 69 credits toward the Civil Engineering degree.	

	Computer Engine	eeri	n <mark>g Gr</mark> o	oup 2 Major	Requirements	
	Central Methodist University		Semester	[Missouri S&T	
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 MA 107	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 Discrete Math	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200 CS 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government Discrete Math for Computer Science	3
CS 378	Data Structures and Alogrithms	3		CS 1500	Computational Problem Solving	ა ვ
PH 307 or CH 341	Modern Physics or Organic Chemistry	3		PHYSICS 2305 or CHEM 2210	Intro to Modern Physics or Organic Chemistry I Satisfies a required engineering/science elective.	3
MA 318	Matricies and Linear Algebra	3		MATH 3108	Linear Algebra (Will satisfy a required math elective.)	3
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3
	Maximum Free Electives	3			Maximum Free Electives	3
	Group 2 Major Requirements	27			Group 2 Major Requirements	27
	Group 1 Core Requirements Total Hou	38 urs 65			Group 1 Core Requirements *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	

Electrica	I Engine	erına Gra	oup 2 Maior	Requirements

				- J			
	Central Methodist University			Semester		<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 Gov	t	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
CS 378	Data Structures & Algorithms		3		CS 1500	Computational Problem Solving	3
PH 307 or CH 114	Modern Physics or Organic Chemistry		3		PHYSICS 2305 or CHEM 2210	Intro to Modern Physics or Organic Chemistry I	3
MA 318	Matricies and 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 Group 1 Core Requirements		24 38			Group 2 Major Requirements Group 1 Core Requirements	24 34
		al Hours	62			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	58

	Engineering Management Group 2 Major Requirements							
	Central Methodist University		Semester		<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 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		
CT 101	Public Speaking			SPMS 1185	Principles of Speech	3		
EN 110 or EN 306	Expository Writing or Technical Writing	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3		
CS 172	.NET1	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	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	38			Group 1 Core Requirements	34		
	Total Hours	56			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	55		

	Environmental I	Enginee	ring G	roup 2 Ma	ijor Requirements	
	Central Methodist University		Semester		<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 1200 or HISTORY 1300 or HISTORY 1310	Modern Western Civilization or American History to 1877 or American History since 1877	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
	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	20			Group 2 Major Requirements	19
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Т	otal Hours 58			Total Hou *S&T advisor permission is required to transfer more than 69 credits toward the Environmental Engineering degree.	

Geological En	aineerina	Group 2 Mai	jor Requirements

	Central Methodist University		Semester		Missouri S&T	
EN 306	Technical Writing	3		ENGLISH 3560	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 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
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 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	19			Group 2 Major Requirements	18
	Group 1 Core Requirements	38			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 Geological Engineering degree.	52

	Mechanical Engineering Group 2 Major Requirements								
	Central Methodist University		Semester		<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 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			
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	Matricies and Linear Algebra	3		MATH 3108	Linear Algebra I (Will satisfy the Advanced Math/Computer Science elective requirement.)	3			
EN 225	World Literature (or other literature elective)	3		ENGLISH 1231	World Literature I (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	18			Group 2 Major Requirements	18			
	Group 1 Core Requirements	38			Group 1 Core Requirements	34			
	Total Hours	56			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	52			

	Metallurgical Engir	eer	ing G	roup 2 Majo	or Requirements	
	Central Methodist University		Semester	·	<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 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
CH 114	General Chemistry II	4		CHEM 1320	General Chemistry II	3
CH 341 or PH 307	Organic Chemistry or Modern Physics	3		CHEM 2210 or PHYSICS 2305	Organic Chemistry I (4) or Intro to Modern Physics I (3) Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.	3
	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	24			Group 2 Major Requirements	21
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hou	rs 62			Total Hours* "S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	55

	Mining Enginee	ring	<mark>j Gro</mark> u	p 2 Major F	Requirements	
	Central Methodist University		Semester	<u>.</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 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
GL 105	Exploring 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	15			Group 2 Major Requirements	15
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hour	\$ 53			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.	49

	Nuclear Engineer	ing	ց <mark>Gro</mark> ւ	ip 2 Major F	Requirements	
	Central Methodist University		Semester		<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 PTechnical 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 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
CS 172	.NET1	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
MA 318	Matricies and Linear Algebra	3		MATH 3108	Linear Algebra	3
PH 307	Modern Physics	3		PHYSICS 2305	Intro to Modern Physics	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	27			Group 2 Major Requirements	27
	Group 1 Core Requirements	38			Group 1 Core Requirements	34
	Total Hours	65			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Nuclear Engineering degree.	61

	Petroleum Engine	ering Gr	oup 2 Majo	r Requirements	
	Central Methodist University	Semest	er_	Missouri S&T	
EN 110 or EN 306	Expository Writing or Technical Writing	3	ENGLISH 3560 or ENGLISH 1160	Technical Writing (preferred) or Writing and Research	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 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
GL 105	Exploring 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 Group 1 Core Requirements	15 38		Group 2 Major Requirements Group 1 Core Requirements	15 34
	Total Hour	s 53		Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	49