Crowder 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.

	Crowder College		<u>Semester</u>	,	Missouri S&T		
MATH 150, 160	Calculus Part 1 and 2	5		MATH 1214	Calculus I Grade of C or better is required.		4
MATH 201	Calculus II	5		MATH 1215	Calculus II Grade of C or better is required.		4
MATH 202	Calculus III	5		MATH 2222	Calculus III Grade of C or better is required.		4
MATH 210	Differential Equations	3		MATH 3304	Elementary Differential Equations		3
PHYS 190	General Physics I	5		PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 210	General Physics II	5		PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
CHEM 111	General Chemistry	5		CHEM 1310, 1319	General Chemistry I and Lab		5
ENG 101	English Composition	3		ENGLISH 1120	Exposition and Argumentation		3
ECON 202 or	Principles of Economics II (Micro) or	2		ECON 1100 or	Principles of Microeconomics or		2
ECON 201	Principles of Economics I (Macro)	S		ECON 1200	Principles of Macroeconomics		3
		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	eri	ng Group 2 Ma	ajor Requirements	
	Crowder College		<u>Semester</u>	Missouri S&T	
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local Government	3	HISTORY 1200 HISTORY 1300 HISTORY 1310 POL SCI 1200	or American History to 1877 or	3
ENGL 102 or COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing	3	ENGLISH 1160 SPMS 1185 or ENGLISH 3560	or Writing and Research or Principles of Speech or Technical Writing	3
PHYS 250 ENGL 240 or ENGL 230 or ENGI 222 or	Statics British Literature I or Survey of American Litererature I or World Literature I (or other literature elective)	3	CIV ENG 2200 ENGLISH 1211 ENGLISH 1221 ENGLISH 1231		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. Group 2 Major Requirements Group 1 Core Requirements Total Hours	0 15 39 54		Maximum Free Electives 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	

	Architectural Engin	eeri	ng Gr	oup 2 Majo	or Requirements	
	Crowder College	S	Semester		Missouri S&T	
HIST 102* (or HIST 106 or HIST 107)	Western Civilization II* (or U.S. History I or U.S. History II) *HIST 102 is preferred; 106 or 107 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 250	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
GEOL 115	Intro to 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	12 39			Group 2 Major Requirements Group 1 Core Requirements	12 34
	Total Hours	51			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	46

	Crowder College		<u>Semester</u>	Missouri S&T	
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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 250	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 112	General Chemistry II	5	CHEM 1320	General Chemistry II	3
ENGL 102 or COMM 104 or HSS Elective	Advanced English Composition or Fundamentals of Speech or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or 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	17		Group 2 Major Requirements	15
	Group 1 Core Requirements	39		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 Ceramic Engineering degree.	49

	Chemical Engin	eering	Group 2 Major	Requirements	
	Crowder College	Se	emester	Missouri S&T	
ENGL 203	Technical Report Writing	3	ENGLISH 3560	Technical Writing	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local Government	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CHEM 112	General Chemistry II	5	CHEM 1320	General Chemistry II	3
COMP 111	Intro to Computer Science	3	CS 1971,1981	Intro to Programming Methodology and Lab C++ Course will be substituted for CS 1500.	3
COMM 104	Fundamentals of Speech	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	20		Group 2 Major Requirements	18
	Group 1 Core Requirements	39		Group 1 Core Requirements	34
	Total H	lours 59		Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	

	Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements									
	Crowder College	•		Semester		Missouri S&T				
ENGL 203	Technical Report Writing		3		ENGLISH 3560	Technical Writing	3			
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local Government		3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3			
CHEM 112	General Chemistry II		5		CHEM 1320	General Chemistry II	3			
COMP 111	Intro to Computer Science		3		CS 1971,1981	Intro to Programming Methodology and Lab C++ Course will be substituted for CS 1500.	3			
COMM 104	Fundamentals of Speech		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		20			Group 2 Major Requirements	18			
	Group 1 Core Requirements		39			Group 1 Core Requirements	34			
		Total Hours	59			Total Hours*	52			
						*S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree.				

	Civil Engine	eering	Group	2 Major	Requirements		
	Crowder College		Semester		Missouri S&T		
ENGL 102 or COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing	3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing		3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local Government	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or		3
GEOL 115	Intro to Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology		3
PHYS 250	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
	То	tal Hours 54			*S&T advisor permission is required to transfer more than 69 Civil Engineering degree.	Total Hours* credits toward the S&T	49

	Computer E	nginee	ering	Gro	up 2 Majo	r Requirements	
	Crowder College		Sen	nester		Missouri S&T	
COMM 104	Fundamentals of Speech		3		SPMS 1185	Public Speaking	3
ENGL 102 or ENGL 203	Advanced English Composition or Technical Report Writing		3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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
COMP 111	Intro to Computer Science		4		CS 1500	Computational Problem Solving	3
PHYS 250	Statics		3		CIV ENG 2200	Engineering Mechanics-Statics Satisfies an Engineering Science Elective requirement.	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		22 39			Group 2 Major Requirements Group 1 Core Requirements	21 34
		Total Hours	61			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	

	Electrical Enginee	rir	Group 2 Major	Requirements	
COMM 104	Fundamentals of Speech	3	SPMS 1185	Public Speaking	3
ENGL 102 or ENGL 203	Advanced English Composition or Technical Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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
COMP 111	Intro to Computer Science	4	CS 1500	Computational Problem Solving	3
PHYS 250	Statics 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	CIV ENG 2200	Engineering Mechanics-Statics 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 Group 1 Core Requirements	22 39		Group 2 Major Requirements Group 1 Core Requirements	21 34
	Total Hours	61		*S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	55

	Crowder College		Semester	ſ	Missouri S&T	
PSYC 101	General Psychology		3	PSYCH 1101	General Psychology	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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
COMM 104	Fundamentals of Speech		3	SPMS 1185	Principles of Speech	3
ENGL 102 or ENGL 203	Advanced English Composition or Technical Report Writing		3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COMP 111	Intro to Computer Science		3	CS 1971,1981	Intro to Programming Methodology and Lab C++	3
PHYS 250	Statics		3	CIV ENG 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		24		Group 2 Major Requirements	24
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
		Total Hours	63		Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	58

	Crowder College		Semest	ter	Missouri S&T	
ENGL 102 or COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing		3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HIST 102 or HIST 106 or HIST 107	Western Civilization II or U.S. History I or U.S. 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
GEOL 115	Intro to Geology		3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHEM 112	General Chemistry II		5	CHEM 1320	General Chemistry II	3
BIOL 101	General Biology		5	BIO SCI 1113	General Biology	4
PHYS 250	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	22
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
		Total Hours	64		Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	56

	Crowder College		Semester	· · ·	Missouri S&T	
ENGL 203	Technical Report Writing	3	Ocinicator	ENGLISH 3560	Technical Writing	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or U.S. History II or National, State, Local 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
GEOL 115	Intro to Geology	3		GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
PHYS 250	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
BIOL 101 or CHEM 112	General Biology or General Chemistry II or any 3-hour course in chemistry, geochemistry, or biology	5		BIO SCI 1113 or CHEM 1320	General Biology or General Chemistry II 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 Hou	rs 62			Total Hours* "S&T advisor permission is required to transfer more than 68 credits toward the S&T Geological Engineering degree.	55

	Mechanical En	gineer	ing Gr	oup 2 Majo	r Requirements	
	Crowder College		Semester		Missouri S&T	
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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 COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing	3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Principles of Speech or Technical Writing	3
COMP 111	Intro to Computer Science	3		CS 1971,1981 CIV ENG 2200	Intro to Programming Methodology and Lab C++	3
PHYS 250 ENGL 240 or ENGL 230 or ENGI 222 or	Statics British Literature I or Survey of American Litererature I or World Literature I (or other literature elective)	3		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	Engineering Mechanics-Statics British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or 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 Group 1 Core Requirements To	18 39 otal Hours 57			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.	18 34 52

Metallurgical Engineering Group 2 Major Requirements									
	Crowder College		Semester		Missouri S&T				
ENGL 102 or COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing	3		ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3			
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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 250	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3			
CHEM 112	General Chemistry II	5		CHEM 1320	General Chemistry II	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 Group 1 Core Requirements	25 39			Group 2 Major Requirements Group 1 Core Requirements	21 34			
		Total Hours 64			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	55			

Mining Engineering Group 2 Major Requirements									
	Crowder College		Semester	•	Missouri S&T				
ENGL 102 or ENGL 203	Advanced English Composition or Technical Report Writing	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3	3		
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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	3		
PHYS 250	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3	3		
GEOL 115	Intro to Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3	3		
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3	3		
	Humanities/Social Science Elective	3			Humanities/Social Science Elective	3	3		
	No free electives applied to the degree.	0			Maximum Free Electives	0	0		
	Group 2 Major Requirements	18			Group 2 Major Requirements	18	18		
	Group 1 Core Requirements	39			Group 1 Core Requirements	34	34		
	· · · · · · · · · · · · · · · · · · ·	Fotal Hours 57			Tota *S&T advisor permission is required to transfer more than 68 credits towa Mining Engineering degree.		52		

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	Crowder College		Semest	<u>er</u>	<u>Missouri S&T</u>	
ENGL 102 or COMM 104 or ENGL 203	Advanced English Composition or Fundamentals of Speech or Technical Report Writing		3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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
COMP 111	Intro to Computer Science		3	CS 1971,1981	Intro to Programming Methodology and Lab C++	3
PHYS 250	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 Group 1 Core Requirements		24 39		Group 2 Major Requirements Group 1 Core Requirements	24 34
		Total Hours	63		Total Hours* *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									
	Crowder College	Se	emester	Missouri S&T					
ENGL 203 or ENGL 102	Technical Report Writing Advanced English Composition	3	ENGLISH 3560 or ENGLISH 1160 or	Technical Writing (preferred) or Writing and Research	3				
HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or U.S. History I or U.S. History II or National, State, Local 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				
GEOL 115	Intro to Geology	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3				
PHYS 250	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 H	ours 57		Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.					