

# Missouri State University West Plain — Missouri S&T

## General Engineering Transfer Guide

Effective as of Fall 2017

Complete Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice.

### Group 1 - Core Requirements: All Majors Take All Courses

Engineering students take all Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice. Math prerequisites: While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. To prepare for entry into calculus, students should follow math placement testing and advising recommendations at their college.

<u>Missouri State University West Plain</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
MTH 261	Analytical Geometry/Calculus I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required.	4
MTH 280	Analytical Geometry/Calculus II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required.	4
MTH 292	Multivariable Calculus	3	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required.	4
PHY 203	Foundations of Physics I	5	PHYSICS 1135	Engineering Physics I	Grade of C or better is required.	4
PHY 204	Foundations of Physics II	5	PHYSICS 2135	Engineering Physics II	Grade of C or better is required.	4
CHM 160, 161	General Chemistry I and lab	5	CHEM 1310, 1319	General Chemistry I and Lab		5
EGR 100	Careers in Engineering	3	FR ENG 1100	Study and Careers in Engineering		1
EGR 110	Introduction to Engineering Design	3	MECH ENG 1720	Engineering Design with Computer Appl		3
ENG 110	Writing I	3	ENGLISH 1120	Exposition and Argumentation		3
ECO 165 or ECO 155	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics		3
<b>Total Hours</b>			<b>40</b>			<b>Total Hours</b> <b>35</b>

### 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](http://ugs.mst.edu). Your campus may have additional acceptable options. Consult with your advisor or email [transfer@mst.edu](mailto:transfer@mst.edu) with questions.

## Aerospace Engineering Group 2 Major Requirements

<u>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
HSI 121 or	Survey of US History to 1877 or		HISTORY 1300 or	American History to 1877 or
HST 122 or	Survey of History since 1877 or		HISTORY 1310 or	American History since 1877 or
HST 102 or	Western Civilization II or	3	HISTORY 1200 or	Modern Western Civilization or
PLS 101	American Democracy		POL SCI 1200	American Government
ENG 210 or	Writing II: Academic Writing or		ENGLISH 1160 or	Writing and Research or
COM 115 or	Intro to Speech Communication or	3	SPMS 1185 or	Principles of Speech or
ENG 221	Writing II: Writing for the Professions		ENGLISH 3560	Technical Writing
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
	<i>See your advisor for course options.</i>			Literature Elective
	<i>See your advisor for course options.</i>			Ethics Elective
	<i>No free electives applied to the degree.</i>			Maximum Free Electives
	Group 2 Major Requirements	12		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	52		Total Hours*
				18
				35
				53

\*S&T advisor permission is required to transfer more than 60 credits toward the S&T Aerospace Engineering degree.

## Architectural Engineering Group 2 Major Requirements

<u>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
HST 102 or	Western Civilization II or		HISTORY 1200*	Modern Western Civilization*
HST 121 or	Survey of US History to 1877 or	3	(or HISTORY 1300 or	(or American History to 1877 or
HST 122	Survey of History since 1877		HISTORY 1310)	American History since 1877)
				<small>*HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.</small>
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
			ENGLISH 1160 or	Writing and Research or
ENG 210 or	Writing II: Academic Writing or		SPMS 1185 or	Public Speaking or
COM 115	Intro to Speech Communication	3	HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language
			PHYSICS 1505	introductory Astronomy (or other chemistry, geology, biology, physics, or astronomy course that is not otherwise required for the degree)
AST 115	Basic Astronomy	4		to the degree as a basic science elective <span style="float: right;">Applies</span>
	<i>No free electives applied to the degree.</i>			Maximum Free Electives
	Group 2 Major Requirements	13		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				12
				35
				47

\*S&T advisor permission is required to transfer more than 60 credits toward the S&T Architectural Engineering degree.

## Ceramic Engineering Group 2 Major Requirements

<u>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
HST 121 or HST 122 or HST 102 or PLS 101	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	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
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
CHM 170, 171	General Chemistry II and lab	4	CHEM 1320	General Chemistry II	3
ENG 210 or COM 115	Writing II: Academic Writing or Intro to Speech Communication	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Maximum Free Electives	0
<i>No free electives applied to the degree.</i>				Group 2 Major Requirements	15
	Group 2 Major Requirements	13		Group 1 Core Requirements	35
	Group 1 Core Requirements	40			
	Total Hours	53		Total Hours*	50

\*S&T advisor permission is required to transfer more than 65 credits toward the S&T Ceramic Engineering degree.

## Chemical Engineering Group 2 Major Requirements

<u>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
CHM 170, 171	General Chemistry II and lab	4	CHEM 1320	General Chemistry II	5
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>				Maximum Free Electives	0
	Group 2 Major Requirements	13		Group 2 Major Requirements	20
	Group 1 Core Requirements	40		Group 1 Core Requirements	35
	Total Hours	53		Total Hours*	55

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government	3
CHM 170, 171	General Chemistry II and lab	4	CHEM 1320	General Chemistry II	5
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>				Maximum Free Electives	0
	Group 2 Major Requirements	13		Group 2 Major Requirements	20
	Group 1 Core Requirements	40		Group 1 Core Requirements	35
	Total Hours	53		Total Hours*	55

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 210 or COM 115 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Public Speaking or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
GLG 110 PHY 233	Principles of Geology Engineering Statics	4 3	GEO 1110/GE 1150 CIV ENG 2200	Intro to Physical Geology Engineering Mechanics-Statics
<i>See your advisor for course options.</i>				Humanities/Social Science Elective
<i>No free electives applied to the degree.</i>				Maximum Free Electives
	Group 2 Major Requirements	13		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				15 35 0 50

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
COM 115 ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Intro to Speech Communication Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3 3 3	SPMS 1185 ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Public Speaking Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)
<i>See your advisor for course options.</i>				Humanities/Social Science Elective
<i>See your advisor for course options.</i>				Maximum Free Electives
	Group 2 Major Requirements	12		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	52		Total Hours*
				19 35 3 54

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
COM 115 ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Intro to Speech Communication Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3 3 3	SPMS 1185 ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Public Speaking Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)
<i>See your advisor for course options.</i>				Humanities/Social Science Elective
<i>See your advisor for course options.</i>				Maximum Free Electives
	Group 2 Major Requirements	12		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	52		Total Hours*
				19 35 3 54

\*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

Missouri State University West Plain		Semester	Missouri S&T		
PSY 121	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HST 122 or HST 102 or PLS 101	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	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
ENG 210 or COM 115 or ENG 221	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Principles of Speech or Technical Writing	3
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>See your advisor for course options.</i>			Maximum Free Electives		3
Group 2 Major Requirements		12	Group 2 Major Requirements		18
Group 1 Core Requirements		40	Group 1 Core Requirements		35
Total Hours		52	Total Hours*		53

\*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

Missouri State University West Plain		Semester	Missouri S&T		
ENG 210 or COM 115 or ENG 221	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HST 122 or HST 102	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 (preferred) or American History since 1877 (preferred) or Modern Western Civilization	3
GLG 110	Principles of Geology	4	GEO 1110/GE 1150	Intro to Physical Geology	3
CHM 170, 171	General Chemistry II and lab	4	CHEM 1320	General Chemistry II	3
BIO 121	General Biology I	5	BIO SCI 1113	General Biology	4
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>No free electives applied to the degree.</i>			Maximum Free Electives		0
Group 2 Major Requirements		22	Group 2 Major Requirements		22
Group 1 Core Requirements		40	Group 1 Core Requirements		35
Total Hours		62	Total Hours*		57

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

## Geological Engineering Group 2 Major Requirements

Missouri State University West Plain		Semester	Missouri S&T		
ENG 210 or COM 115 or ENG 221	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing	3
HST 122 or HST 102 or PLS 101	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	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
GLG 110	Principles of Geology	4	GEO 1110/GE 1119	Physical and Environmental Geology	3
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
BIO 121 or CHM 170, 171	General Biology I or General Chemistry II and lab	5	BIO SCI 1113 or CHEM 1320	General Biology or General Chemistry II	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>No free electives applied to the degree.</i>			Maximum Free Electives		0
Group 2 Major Requirements		18	Group 2 Major Requirements		18
Group 1 Core Requirements		40	Group 1 Core Requirements		35
Total Hours		58	Total Hours*		53

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
HS1 121 or HST 122 or HST 102 or PLS 101	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	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
ENG 210 or COM 115 or ENG 221	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Principles of Speech or Technical Writing
	Introduction to C++	3		
CSC 125			CS 1570, 1580	Intro to Programming and Lab (C++)
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
				Literature Elective
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>			Maximum Free Electives
	Group 2 Major Requirements	3		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	43		Total Hours*
				44

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 210 or COM 115 or ENG 221	Writing II: Academic Writing or Intro to Speech Communication or Writing II: Writing for the Professions	3	ENGLISH 1160 or SPMS 1185 or ENGLISH 3560	Writing and Research or Public Speaking or Technical Writing
HS1 121 or HST 122 or HST 102 or PLS 101	Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	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
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
CHM 170, 171	General Chemistry II and lab	4	CHEM 1320	General Chemistry II
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Maximum Free Electives
	Group 2 Major Requirements	13		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				58

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
PHY 233	Engineering Statics	3	CIV ENG 2200*	Engineering Mechanics-Statics
GLG 110	Principles of Geology	4	GEO 1110/GE 1150	Intro to Physical Geology
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>			Maximum Free Electives
	Group 2 Major Requirements	13		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				53

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
CSC 125	Introduction to C++	3	CS 1570, 1580	Intro to Programming and Lab (C++)
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Maximum Free Electives
	Group 2 Major Requirements	12		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	52		Total Hours*
				56

\*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>Missouri State University West Plain</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 210 or ENG 221 HST 121 or HST 122 or HST 102 or PLS 101	Writing II: Academic Writing or Writing II: Writing for the Professions Survey of US History to 1877 or Survey of History since 1877 or Western Civilization II or American Democracy	3	ENGLISH 1160 or ENGLISH 3560 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200	Writing and Research or Technical Writing American History to 1877 or American History since 1877 or Modern Western Civilization or American Government
GLG 110	Principles of Geology	4	GEO 1110/GE 1119	Physical and Environmental Geology
PHY 233	Engineering Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>			Maximum Free Electives
	Group 2 Major Requirements	7		Group 2 Major Requirements
	Group 1 Core Requirements	40		Group 1 Core Requirements
	Total Hours	47		Total Hours*
				47

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