

Rend Lake Community College — 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>Rend Lake Community College</u>			<u>Semester</u>	<u>Missouri S&T</u>			
MATH 1121	Calculus and Analytical Geometry	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required.	4	
MATH 2122	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required.	4	
MATH 2123	Calculus and Analytical Geometry III	4	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required.	4	
MATH 2130	Differential Equations	3	MATH 3304	Elementary Differential Equations		3	
PHY 1103	University Physics I	5	PHYSICS 1135	Engineering Physics I	Grade of C or better is required.	4	
PHY 1104	University Physics II	5	PHYSICS 2135	Engineering Physics II	Grade of C or better is required.	4	
CHE 1103	Inorganic Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab		5	
ENGL 1101	Rhetoric and Composition	3	ENGLISH 1120	Exposition and Argumentation		3	
ECON 2102 or ECON 2101	Principles of Economics II or Principles of Economics I	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>Rend Lake Community College</u>	<u>Semester</u>	<u>Missouri S&T</u>	
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government 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
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking 3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech 3
CSCI 1103	Introduction to Programming 3	CS 1971, 1981	Intro to Programming Method and Lab (C++) 3
PHY 2121	Electrical Engineering Circuit 4	EE 2800	Circuit Analysis I 3
PHY 2101	Statics 3	CIV ENG 2200	Engineering Mechanics-Statics 3
MATH 2108	Linear Algebra 3	MATH 3108	Linear Algebra I (Will satisfy the Advanced Math/Comp Sci elective requirement.) 3
<i>See your advisor for course options.</i>		Literature Elective 3	
<i>See your advisor for course options.</i>		Ethics Elective 3	
<i>No free electives applied to the degree.</i>		Maximum Free Electives 0	
Group 2 Major Requirements 19		Group 2 Major Requirements 24	
Group 1 Core Requirements 38		Group 1 Core Requirements 34	
Total Hours 57		Total Hours* 58	

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

Architectural Engineering Group 2 Major Requirements

<u>Rend Lake Community College</u>	<u>Semester</u>	<u>Missouri S&T</u>	
HIST 1102 or HIST 2101 or HIST 2102	Western Civilization II or American History I or American History II 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
PHY 2101	Statics 3	CIV ENG 2200	Engineering Mechanics-Statics 3
PHY 2102	Dynamics 3	MECH ENG 2350	Engineering Mechanics-Dynamics 3
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking 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
AST 1101	Astronomy I 4	PHYSICS 1505	Introductory Astronomy (or other chemistry, geology, biology, physics, or astronomy course that is not otherwise required for the degree) Applies to 3
<i>No free electives applied to the degree.</i>		Maximum Free Electives 0	
Group 2 Major Requirements 16		Group 2 Major Requirements 15	
Group 1 Core Requirements 38		Group 1 Core Requirements 34	
Total Hours 54		Total Hours* 49	

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

Ceramic Engineering Group 2 Major Requirements

<u>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
CHE 2120	Organic Chemistry I	5	CHEM 2210/2219	Organic Chemistry I and Lab (Not a specific requirement. Will satisfy technical elective requirement.)	5
CHE 1104	Qualitative Analysis and Inorganic Chemistry	5	CHEM 1320	General Chemistry II	3
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	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>					3
<i>No free electives applied to the degree.</i>					0
Group 2 Major Requirements		19	Group 2 Major Requirements		20
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		57	Total Hours*		54

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Ceramic Engineering degree.

Chemical Engineering Group 2 Major Requirements

<u>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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
CHE 1104	Qualitative Analysis and Inorganic Chemistry	5	CHEM 1320	General Chemistry II	5
CHE 2120	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
CHE 2121	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3
CSCI 1103	Introduction to Programming	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
<i>See your advisor for course options.</i>					3
<i>See your advisor for course options.</i>					3
<i>No free electives applied to the degree.</i>					0
Group 2 Major Requirements		24	Group 2 Major Requirements		26
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		62	Total Hours*		60

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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
CHE 1104	Qualitative Analysis and Inorganic Chemistry	5	CHEM 1320	General Chemistry II	5
CHE 2120	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
CHE 2121	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3
CSCI 1103	Introduction to Programming	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
<i>See your advisor for course options.</i>					3
<i>See your advisor for course options.</i>					3
<i>No free electives applied to the degree.</i>					0
Group 2 Major Requirements		24	Group 2 Major Requirements		26
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		62	Total Hours*		60

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2102	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	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		12	Group 2 Major Requirements		15
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		50	Total Hours*		49

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1101	Principles of Effective Public Speaking	3	SPMS 1185	Public Speaking	3
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101 and PHY 2102	Statics and Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics	6
PHY 2121	Electrical Engineering Circuit	4	EE 2100**	Circuits I <small>(Both courses combined will satisfy a required engineering science elective.)</small>	3
MATH 2108	Linear Algebra	3	MATH 3108	Linear Algebra <small>(Will satisfy a required math elective.)</small>	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		22	Group 2 Major Requirements		27
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		60	Total Hours*		61

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1101	Principles of Effective Public Speaking	3	SPMS 1185	Public Speaking	3
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101 and PHY 2102	Statics and Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics	6
PHY 2121	Electrical Engineering Circuit	4	EE 2100**	Circuits I <small>(Both courses combined will satisfy a required engineering science elective.)</small>	3
MATH 2108	Linear Algebra	3	MATH 3108	Linear Algebra	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		22	Group 2 Major Requirements		27
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		60	Total Hours*		61

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSYC 2101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
PHY 2121	Electrical Engineering Circuit	4	EE 2800	Circuit Analysis I	3
PHY 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2102	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
			<i>See your advisor for course options.</i>		3
			<i>See your advisor for course options.</i>		3
		19			24
		38			34
Total Hours		57			58

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 2101 or HIST 2102 or HIST 1102	American History I or American History II 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
CHE 1104	Qualitative Analysis and Inorganic Chemistry	5	CHEM 1320	General Chemistry II	3
BIO 1101	College Biology	5	BIO SCI 1113	General Biology	4
PHY 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2102	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
			<i>See your advisor for course options.</i>		3
			<i>No free electives applied to the degree.</i>		0
		22			22
		38			34
Total Hours		60			56

*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

<u>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2102	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
BIO 1101 or CHE 1104 or CHE 2120	College Biology or Qualitative Analysis and Inorganic Chemistry or Organic Chemistry I	5	BIO SCI 1113 or CHEM 1320 or CHEM 2210	General Biology or General Chemistry II or Organic Chemistry I	3
			<i>See your advisor for course options.</i>		3
			<i>See your advisor for course options.</i>		3
			<i>No free electives applied to the degree.</i>		0
		17			18
		38			34
Total Hours		55			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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CSCI 1103	Introduction to Programming	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
PHY 2121	Electrical Engineering Circuit	4	EE 2800	Circuit Analysis I	3
PHY 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
MATH 2108	Linear Algebra	3	MATH 3108	Linear Algebra I <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	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		10	Group 2 Major Requirements		12
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		48	Total Hours*		46

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 1102 or COMM 1101	Rhetoric and Composition II or Principles of Effective Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIST 2101 or HIST 2102 or HIST 1102 or POLI 2101	American History I or American History II or Western Civilization II or American Government	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 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
CHE 1104	Qualitative Analysis and Inorganic Chemistry	5	CHEM 1320	General Chemistry II	3
CHE 2120 or BIO 1101	Organic Chemistry I or College Biology	5	CHEM 2210 or EE 2800	Organic Chemistry I or Electrical Circuits <small>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement</small>	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>See your advisor for course options.</i>				Maximum Free Electives	5
Group 2 Major Requirements		19	Group 2 Major Requirements		26
Group 1 Core Requirements		38	Group 1 Core Requirements		34
Total Hours		57	Total Hours*		60

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research
HIST 2101 or	American History I or		HISTORY 1300 or	American History to 1877 or
HIST 2102 or	American History II or	3	HISTORY 1310 or	American History since 1877 or
HIST 1102 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or
POLI 2101	American Government		POL SCI 1200	American Government
PHY 2101	Statics	3	CIV ENG 2200*	Engineering Mechanics-Statics
PHY 2102	Dynamics	3	MECH ENG 2350*	Engineering Mechanics-Dynamics
			*The combination of CIV ENG 2200 and MECH ENG 2350 will be substituted for MECH ENG 2340.	
			Humanities/Social Science Elective	
			Humanities/Social Science Elective	
			Maximum Free Electives	
		12		
Group 2 Major Requirements		38	Group 2 Major Requirements	
Group 1 Core Requirements			Group 1 Core Requirements	
Total Hours		50	Total Hours*	
			18	
			34	
			52	

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research
HIST 2101 or	American History I or		HISTORY 1300 or	American History to 1877 or
HIST 2102 or	American History II or	3	HISTORY 1310 or	American History since 1877 or
HIST 1102 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or
POLI 2101	American Government		POL SCI 1200	American Government
CSCI 1103	Introduction to Programming	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)
PHY 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
			Humanities/Social Science Elective	
			Humanities/Social Science Elective	
			Maximum Free Electives	
		12		
Group 2 Major Requirements		38	Group 2 Major Requirements	
Group 1 Core Requirements			Group 1 Core Requirements	
Total Hours		50	Total Hours*	
			21	
			34	
			55	

*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>Rend Lake Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENGL 1102	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research
HIST 2101 or	American History I or		HISTORY 1300 or	American History to 1877 or
HIST 2102 or	American History II or	3	HISTORY 1310 or	American History since 1877 or
HIST 1102 or	Western Civilization II or		HISTORY 1200 or	Modern Western Civilization or
POLI 2101	American Government		POL SCI 1200	American Government
PHY 2101	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
PHY 2102	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics
			Humanities/Social Science Elective	
			Humanities/Social Science Elective	
			Maximum Free Electives	
		6		
Group 2 Major Requirements		38	Group 2 Major Requirements	
Group 1 Core Requirements			Group 1 Core Requirements	
Total Hours		44	Total Hours*	
			12	
			34	
			46	

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