

Hannibal-LaGrange — 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>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MTH 185	Analytic and Calculus I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required. 4
MTH 186	Calculus II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required. 4
MTH 215	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required. 4
MTH 223	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHY 125	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	Grade of C or better is required. 4
PHY 215	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	Grade of C or better is required. 4
CHM 135	College Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
ENG 104	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ECO 223 or	Principles of Economics II (Micro) or	3	ECON 1100 or	Principles of Microeconomics or	3
ECO 213	Principles of Economics I (Macro)		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 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>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
ENG 106 or COM 103	English Composition II or Speech		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CIS 273 or CIS 326	Programming in C or Programming in C++		3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)	3
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
MTH 354 or MTH 283	Linear Algebra or Elementary Statistics		3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	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		15		Group 2 Major Requirements	21
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
	Total Hours		54		Total Hours*	55

*S&T advisor permission is required to transfer more than 66 credits toward the S&T Aerospace Engineering degree.

Architectural Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
HST 213 or HST 223	US History I or History II	US	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics		3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
MTH 283	Elementary Statistics		3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3113.)</small>	3
ENG 106 or COM 103	English Composition II or Speech		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
PHY 233	Engineering Physics III		4	PHYSICS 2305	Intro to Modern Physics (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>				the degree as a basic science elective	
					Maximum Free Electives	0
	Group 2 Major Requirements		19		Group 2 Major Requirements	18
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
	Total Hours		58		Total Hours*	52

*S&T advisor permission is required to transfer more than 66 credits toward the S&T Architectural Engineering degree.

Ceramic Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government
PHY 236	Engineering Mechanics-Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
CHM 235	Organic Chemistry I	5	CHEM 2210/2219	Organic Chemistry I and Lab <small>(Not a specific requirement. Will satisfy technical elective requirement.)</small>
CHM 145	College Chemistry II	5	CHEM 1320	General Chemistry II
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics
ENG 106 or COM 103	English Composition II or Speech	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
<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		22	Group 2 Major Requirements	
Group 1 Core Requirements		39	Group 1 Core Requirements	
Total Hours		61	Total Hours*	
			57	

*S&T advisor permission is required to transfer more than 66 credits toward the S&T Ceramic Engineering degree.

Chemical Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENG 106	English Composition II	3	ENGLISH 1160	Writing and Research
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government
CHM 145	College Chemistry II	5	CHEM 1320	General Chemistry II
CHM 235	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I
CHM 345	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II <small>(Will satisfy science elective requirement.)</small>
CIS 273 or CIS 326	Programming in C or Programming in C++	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3113.)</small>
<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		27	Group 2 Major Requirements	
Group 1 Core Requirements		39	Group 1 Core Requirements	
Total Hours		66	Total Hours*	
			63	

*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>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENG 106	English Composition II	3	ENGLISH 1160	Writing and Research
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government
CHM 145	College Chemistry II	5	CHEM 1320	General Chemistry II
CHM 235	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I
CHM 345	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II <small>(Will satisfy science elective requirement.)</small>
CIS 273 or CIS 326	Programming in C or Programming in C++	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3113.)</small>
<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		27	Group 2 Major Requirements	
Group 1 Core Requirements		39	Group 1 Core Requirements	
Total Hours		66	Total Hours*	
			63	

*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>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 106 or COM 103	English Composition II or Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHY 236	Engineering Mechanics-Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	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		15	Group 2 Major Requirements		18
Group 1 Core Requirements		39	Group 1 Core Requirements		34
Total Hours		54	Total Hours*		52

*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>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COM 103	Speech	3	SPMS 1185	Public Speaking	3
ENG 106	English Composition II	3	ENGLISH 1160	Writing and Research	3
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CIS 326	Programming in C++	3	CS 1570	Intro to Programming (C++)	4
PHY 235	Statics and Dynamics	5	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
MTH 354	Linear Algebra	3	MATH 3108	Linear Algebra (Will satisfy a required math elective.)	3
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3117.)	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		23	Group 2 Major Requirements		31
Group 1 Core Requirements		39	Group 1 Core Requirements		34
Total Hours		62	Total Hours*		65

*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>Hannibal-LaGrange</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COM 103	Speech	3	SPMS 1185	Public Speaking	3
ENG 106	English Composition II	3	ENGLISH 1160	Writing and Research	3
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro 3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CIS 326	Programming in C++	3	CS 1570	Intro to Programming (C++)	4
PHY 235	Statics and Dynamics	5	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
MTH 354	Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 283	Elementary Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3117.)	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		23	Group 2 Major Requirements		31
Group 1 Core Requirements		39	Group 1 Core Requirements		34
Total Hours		62	Total Hours*		65

*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>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
PSY 113	General Psychology	3		PSYCH 1101	General Psychology	3
HST 213 or	US History I or		US	HISTORY 1300 or	American History to 1877 or	
HST 223 or	History II or		Intro	HISTORY 1310 or	American History since 1877 or	3
PLSC 113	to Government			POL SCI 1200	American Government	
ENG 106 or	English Composition II or	3		ENGLISH 1160 or	Writing and Research or	
COM 103	Speech			SPMS 1185	Principles of Speech	3
PHY 236	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	3
MTH 283	Elementary Statistics	3		STAT 3115	Engineering Statistics	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		18		Group 2 Major Requirements	24
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
	Total Hours		57		Total Hours*	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>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106 or	English Composition II or	3		ENGLISH 1160 or	Writing and Research or	
COM 103	Speech		US	SPMS 1185	Principles of Speech	3
HST 213 or	US History I or			HISTORY 1300 or	American History to 1877 (preferred) or	
HST 223	History II	3		HISTORY 1310	American History since 1877 (preferred)	3
CHM 145	College Chemistry II	5		CHEM 1320	General Chemistry II	3
BIO 105	General Biology	4		BIO SCI 1113	General Biology	4
PHY 236	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	3
MTH 283	Elementary Statistics	3		STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	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		24		Group 2 Major Requirements	25
	Group 1 Core Requirements		39		Group 1 Core Requirements	34
	Total Hours		63		Total Hours*	59

*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>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106 or	English Composition II or	3		ENGLISH 1160 or	Writing and Research or	
COM 103	Speech		US	SPMS 1185	Principles of Speech	3
HST 213 or	US History I or			HISTORY 1300 or	American History to 1877 or	
HST 223 or	History II or		Intro	HISTORY 1310 or	American History since 1877 or	3
PLSC 113	to Government			POL SCI 1200	American Government	
PHY 236	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	3
BIO 105 or	General Biology or	5		BIO SCI 1113 or	General Biology or	
CHM 145 or	College Chemistry II or			CHEM 1320 or	General Chemistry II or	
CHM 235	Organic Chemistry II			CHEM 2210	Organic Chemistry I	
	<i>See your advisor for course options.</i>				or any 3-hour course in chemistry, geochemistry, or biology	
	<i>See your advisor for course options.</i>				Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>				Humanities/Social Science Elective	3
	Group 2 Major Requirements		17		Maximum Free Electives	0
	Group 1 Core Requirements		39		Group 2 Major Requirements	18
	Total Hours		56		Group 1 Core Requirements	34
					Total Hours*	52

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

Mechanical Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
ENG 106 or COM 103	English Composition II or Speech		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CIS 273 or CIS 326	Programming in C or Programming in C++		3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)	3 4
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
MTH 354 or MTH 283	Linear Algebra or Elementary Statistics		3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	3
					Literature Elective	3
					Humanities/Social Science Elective	3
					Maximum Free Electives	0
				Group 2 Major Requirements		12
				Group 1 Core Requirements		34
				Total Hours		45
					Group 2 Major Requirements	12
					Group 1 Core Requirements	34
					Total Hours*	46
					<small>*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.</small>	

Metallurgical Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106 or COM 103	English Composition II or Speech		3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HST 213 or HST 223 or PLSC 113	US History I or History II or to Government	US Intro	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
MTH 283	Elementary Statistics		3	STAT 3115	Engineering Statistics	3
CHM 145	College Chemistry II		5	CHEM 1320	General Chemistry II	3
CHM 235	Organic Chemistry I		5	CHEM 2210	Organic Chemistry I <small>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement</small>	3
					Humanities/Social Science Elective	3
					Humanities/Social Science Elective	3
					Maximum Free Electives	5
				Group 2 Major Requirements		29
				Group 1 Core Requirements		34
				Total Hours		61
					Group 2 Major Requirements	29
					Group 1 Core Requirements	34
					Total Hours*	63
					<small>*S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.</small>	

Mining Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106	English Composition II		3	ENGLISH 1160	Writing and Research	3
HST 213 or	US History I or	US		HISTORY 1300 or	American History to 1877 or	
HST 223 or	History II or	Intro	3	HISTORY 1310 or	American History since 1877 or	3
PLSC 113	to Government			POL SCI 1200	American Government	
MTH 283	Elementary Statistics		3	STAT 3115	Engineering Statistics	3
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200*	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics		3	MECH ENG 2350*	Engineering Mechanics-Dynamics	3
				<small>*The combination of CIV ENG 2200 and MECH ENG 2350 will be substituted for MECH ENG 2340.</small>		
						Humanities/Social Science Elective
						3
						Humanities/Social Science Elective
						3
						Maximum Free Electives
						0
			Group 2 Major Requirements			21
			Group 1 Core Requirements			34
			Total Hours			54
					Group 2 Major Requirements	21
					Group 1 Core Requirements	34
					Total Hours*	55

*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>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106	English Composition II		3	ENGLISH 1160	Writing and Research	3
HST 213 or	US History I or	US		HISTORY 1300 or	American History to 1877 or	
HST 223 or	History II or	Intro	3	HISTORY 1310 or	American History since 1877 or	3
PLSC 113	to Government			POL SCI 1200	American Government	
CIS 273 or	Programming in C or		3	CS 1971, 1981 or	Intro to Programming Method and Lab (C++) or	3
CIS 326	Programming in C++			CS 1570	Intro to Programming (C++)	4
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
MTH 283	Elementary Statistics		3	STAT 3115	Engineering Statistics	3
						Humanities/Social Science Elective
						3
						Humanities/Social Science Elective
						3
						Maximum Free Electives
						6
			Group 2 Major Requirements			24
			Group 1 Core Requirements			34
			Total Hours			54
					Group 2 Major Requirements	24
					Group 1 Core Requirements	34
					Total Hours*	58

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

Petroleum Engineering Group 2 Major Requirements

<u>Hannibal-LaGrange</u>		<u>Semester</u>		<u>Missouri S&T</u>		
ENG 106	English Composition II		3	ENGLISH 1160	Writing and Research	3
HST 213 or	US History I or	US		HISTORY 1300 or	American History to 1877 or	
HST 223 or	History II or	Intro	3	HISTORY 1310 or	American History since 1877 or	3
PLSC 113	to Government			POL SCI 1200	American Government	
PHY 236	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 237	Engineering Mechanics-Dynamics		3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
MTH 283	Elementary Statistics		3	STAT 3115	Engineering Statistics	3
						Humanities/Social Science Elective
						3
						Humanities/Social Science Elective
						3
						Maximum Free Electives
						0
			Group 2 Major Requirements			15
			Group 1 Core Requirements			34
			Total Hours			48
					Group 2 Major Requirements	15
					Group 1 Core Requirements	34
					Total Hours*	49

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