

Lincoln University — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2020

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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MAT 123	Calculus I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required. 4
MAT 203	Calculus II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required. 4
MAT 304	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required. 4
MAT 324	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHY 201	General Physics I	5	PHYSICS 1135	Engineering Physics I	Grade of C or better is required. 4
PHY 202	General Physics II	5	PHYSICS 2135	Engineering Physics II	Grade of C or better is required. 4
CHM 101	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5
ENG 101	Composition and Rhetoric	3	ENGLISH 1120	Exposition and Argumentation	3
ECO 202 or ECO 201	Microeconomics or Macroeconomics	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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech
MAT 403 or MAT 415	Linear Algebra or Mathematical Statistics	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>
	Literature Elective	3		Literature Elective
	Ethics Elective	3		Ethics Elective
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	15		Group 2 Major Requirements
	Group 1 Core Requirements	38		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				49

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

Architectural Engineering Group 2 Major Requirements

<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 102 (or HIS 205 or HIS 206)	World Civilization (or US History I or US History II)	3	HISTORY 1200* (or HISTORY 1300 or HISTORY 1310)	Modern Western Civilization* (or American History to 1877 or American History since 1877) <small>*HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.</small>
CET 212	Elementary and Intermediate Surveying	4	CIV ENG 2401	Fundamentals of Surveying
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3113.)</small>
ENG 102 or SPT 206 or HSS Elective	Composition and Rhetoric II 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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	13		Group 2 Major Requirements
	Group 1 Core Requirements	38		Group 1 Core Requirements
	Total Hours	51		Total Hours*
				46

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

Ceramic Engineering Group 2 Major Requirements

<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
CHM 301 or CHM 401	Organic Chemistry I or Physical Chemistry I	3	CHEM 2210 or CHEM 3410	Organic Chemistry I (4) or Chemical Thermodynamics I (3) <small>(Not a specific requirement. Will satisfy the advanced chemistry elective requirement.)</small>
CHM 102	General Chemistry II	4	CHEM 1320	General Chemistry II
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics <small>(or any statistics course 3000-level or higher. Satisfies statistics elective requirement.)</small>
PHY 320	Modern Physics	3	PHYS 2305	Intro to Modern Physics
ENG 102 or SPT 206 or HSS Elective	Composition and Rhetoric II 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
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	22		Group 2 Major Requirements
	Group 1 Core Requirements	38		Group 1 Core Requirements
	Total Hours	60		Total Hours*
				55

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

Chemical Engineering Group 2 Major Requirements

<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
CHM 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHM 301, 303L	Organic Chemistry I and Lab	4	CHEM 2210	Organic Chemistry I	4
CHM 302	Organic Chemistry II <i>Will transfer as science elective requirement.</i>	3	CHEM 2220	Organic Chemistry II <i>Will transfer as science elective requirement.</i>	3
BIO 312	Molecular Biology of the Cell <i>Will transfer as science elective requirement.</i>	4	BIO SCI 2213, 2219	Cell Biology and Lab (4) <i>Will transfer as science elective requirement.</i>	8
CS 338	Object Oriented Programming Using C++	3	CS 1500	Computational Problem Solving	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
SPT 206	Fundamentals of Speech	3	SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	33		Group 2 Major Requirements	36
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	71		Total Hours*	70

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
CHM 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHM 301, 303L	Organic Chemistry I and Lab	4	CHEM 2210	Organic Chemistry I	4
CHM 302	Organic Chemistry II <i>Will transfer as science elective requirement.</i>	3	CHEM 2220	Organic Chemistry II <i>Will transfer as science elective requirement.</i>	3
BIO 312	Molecular Biology of the Cell <i>Will transfer as science elective requirement.</i>	4	BIO SCI 2213, 2219	Cell Biology and Lab (4) <i>Will transfer as science elective requirement.</i>	8
CS 338	Object Oriented Programming Using C++	3	CS 1500	Computational Problem Solving	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
SPT 206	Fundamentals of Speech	3	SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	33		Group 2 Major Requirements	36
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	71		Total Hours*	70

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
CET 212	Elementary and Intermediate Surveying	4	CIV ENG 2401	Fundamentals of Surveying	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		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 69 credits toward the S&T Civil Engineering degree.

Computer Engineering Group 2 Major Requirements

<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
SPT 206	Fundamentals of Speech	3	SPMS 1185	Public Speaking	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or HIS 206 or HIS 102 or	US History I or US History II or World Civilization or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or	3
PSC 203	American National Government		POL SCI 1200	American Government	
CS 338	Object Oriented Programming Using C++	3	CS 1500	Computational Problem Solving	3
CHM 301 or BIO 312 or BIO 310	Organic Chemistry I (3) or Molecular Biology of the Cell (4) or General Genetics (4)	3	CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3)	3
MAT 403 or MAT 315	Linear Algebra or Techniques of Mathematical Proofs	3	MATH 3108 or MATH 3109	Linear Algebra or Foundations of Mathematics (Will satisfy a required math elective.)	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3117.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	0		Maximum Free Electives	3
	Group 2 Major Requirements	24		Group 2 Major Requirements	27
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	62		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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
SPT 206	Fundamentals of Speech	3	SPMS 1185	Public Speaking	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or HIS 206 or HIS 102 or	US History I or US History II or World Civilization or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or	3
PSC 203	American National Government		POL SCI 1200	American Government	
CS 338	Object Oriented Programming Using C++	3	CS 1500	Computational Problem Solving	3
CHM 301 or BIO 312 or BIO 310	Organic Chemistry I (3) or Molecular Biology of the Cell (4) or General Genetics (4)	3	CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3)	3
MAT 403	Linear Algebra	3	MATH 3108	Linear Algebra	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3117.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Maximum Free Electives	3
	Group 2 Major Requirements	27		Group 2 Major Requirements	27
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	65		Total Hours*	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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
HIS 205 or HIS 206 or HIS 102 or	US History I or US History II or World Civilization or	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or	American History to 1877 or American History since 1877 or Modern Western Civilization or	3
PSC 203	American National Government		POL SCI 1200	American Government	
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	3		Maximum Free Electives	3
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	56		Total Hours*	52

*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

Environmental Engineering Group 2 Major Requirements					
<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 205 or HIS 206 or HIS 102	US History I or US History II or World Civilization	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History since 1877 or Modern Western Civilization	3
CHM 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
BIO 103	Principles of Biology	3	BIO SCI 1113	General Biology	4
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	19		Group 2 Major Requirements	19
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	57		Total Hours*	53

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

Geological Engineering Group 2 Major Requirements

Geological Engineering Group 2 Major Requirements					
<u>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
BIO 103 or CHM 102 or CHM 301	Principles of Biology (3) or General Chemistry II (4) or Organic Chemistry I (3)	3	BIO SCI 1113 or CHEM 1320 or CHEM 2210	General Biology or General Chemistry II or Organic Chemistry I <small>or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement.</small>	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	53		Total Hours*	49

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech
MAT 403 or MAT 415	Linear Algebra or Mathematical Statistics	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>
	Literature Elective	3		Literature Elective
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives
	Group 2 Major Requirements	15		Group 2 Major Requirements
	Group 1 Core Requirements	38		Group 1 Core Requirements
	Total Hours	53		Total Hours*
				49

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>	
ENG 102 or SPT 206	Composition and Rhetoric II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech
HIS 205 or HIS 206 or HIS 102 or PSC 203	US History I or US History II or World Civilization or American National 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
CHM 102	General Chemistry II	4	CHEM 1320	General Chemistry II
CHM 301 or CHM 401 or PHY 320	Organic Chemistry I or Physical Chemistry I or Modern Physics	3	CHEM 2210 or CHEM 3410 or PHYSICS 2305	Organic Chemistry I (4) or Chemical Thermodynamics I (3) or Intro to Modern Physics (3)
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	Humanities/Social Science Elective	3		Humanities/Social Science Elective
	<i>See your advisor for course options.</i>	5		Maximum Free Electives
	Group 2 Major Requirements	24		Group 2 Major Requirements
	Group 1 Core Requirements	38		Group 1 Core Requirements
	Total Hours	62		Total Hours*
				57

Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or	US History I or		HISTORY 1300 or	American History to 1877 or	
HIS 206 or	US History II or	3	HISTORY 1310 or	American History since 1877 or	3
HIS 102 or	World Civilization or		HISTORY 1200 or	Modern Western Civilization or	
PSC 203	American National Government		POL SCI 1200	American Government	
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	53		Total Hours*	49

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or	US History I or		HISTORY 1300 or	American History to 1877 or	
HIS 206 or	US History II or	3	HISTORY 1310 or	American History since 1877 or	3
HIS 102 or	World Civilization or		HISTORY 1200 or	Modern Western Civilization or	
PSC 203	American National Government		POL SCI 1200	American Government	
MAT 403 or	Linear Algebra or	3	MATH 3108 or	Linear Algebra or	3
MAT 315	Techniques of Mathematical Proofs		MATH 3109	Foundations of Mathematics	
MAT 415	Mathematical Statistics	3	STAT 3115	Engineering Statistics	3
PHY 320	Modern Physics	3	PHYSICS 2305	Intro to Modern Physics	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>	6		Maximum Free Electives	6
	Group 2 Major Requirements	27		Group 2 Major Requirements	27
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	65		Total Hours*	61

*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>Lincoln University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
HIS 205 or	US History I or		HISTORY 1300 or	American History to 1877 or	
HIS 206 or	US History II or	3	HISTORY 1310 or	American History since 1877 or	3
HIS 102 or	World Civilization or		HISTORY 1200 or	Modern Western Civilization or	
PSC 203	American National Government		POL SCI 1200	American Government	
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	38		Group 1 Core Requirements	34
	Total Hours	50		Total Hours*	46

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