

Lincoln Land 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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MAT 131	Calculus and Analytical Geometry I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required. 4
MAT 132	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required. 4
MAT 233	Calculus and Analytical Geometry III	4	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required. 4
MAT 235	Differential Equations	4	MATH 3304	Elementary Differential Equations	3
PHY 201	Physics I	4	PHYSICS 1135	Engineering Physics I	Grade of C or better is required. 4
PHY 202 and PHY 203	Physics II and Physics III	8	PHYSICS 2135	Engineering Physics II	Grade of C or better is required. 4
CHE 101	General Chemistry	4	CHEM 1310, 1319	General Chemistry I and Lab	5
EGL 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ECO 131 or ECO 132	Principles of Economics I-Microeconomics or Principles of Economics II-Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours		40	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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CPC 120 or MAT 161	C++ Programming Level I or Computer Programming and Application	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)	3
ENG 270	Circuit Analysis	3	EE 2800	Circuit Analysis I	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
MAT 215	Intro to 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>			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	22		Group 2 Major Requirements	27
	Group 1 Core Requirements	40		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 Aerospace Engineering degree.

Architectural Engineering Group 2 Major Requirements

<u>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 102 or HIS 111 or HIS 112	History of Western Civilization or United States History to 1877 or United States History Since 1877	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>	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
EGL 102 or CMN 101	Composition II or Fundamentals of 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
	<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	40		Group 1 Core Requirements	34
	Total Hours	56		Total Hours*	49

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

Ceramic Engineering Group 2 Major Requirements

<u>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
CHE 201	Organic Chemistry I	5	CHEM 2210/2219	Organic Chemistry I and Lab (Not a specific requirement. Will satisfy technical elective requirement.)	5
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
EGL 102 or CMN 101	Composition II or Fundamentals of 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, 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	23
Group 2 Major Requirements		22	Group 1 Core Requirements		34
Group 1 Core Requirements		40	Total Hours*		57
Total Hours		62			

*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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>			
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3	
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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 102	General Chemistry II	4	CHEM 1320	General Chemistry II	5	
CHE 201	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3	
CHE 202	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3	
CPC 120 or MAT 161	C++ Programming Level I or Computer Programming and Application	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (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		23	Group 2 Major Requirements		26	
Group 1 Core Requirements		40	Group 1 Core Requirements		34	
Total Hours		63	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>			
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3	
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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 102	General Chemistry II	4	CHEM 1320	General Chemistry II	5	
CHE 201	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3	
CHE 202	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)	3	
CPC 120 or MAT 161	C++ Programming Level I or Computer Programming and Application	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (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		23	Group 2 Major Requirements		26	
Group 1 Core Requirements		40	Group 1 Core Requirements		34	
Total Hours		63	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	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		16	Group 2 Major Requirements		18
Group 1 Core Requirements		40	Group 1 Core Requirements		34
Total Hours		56	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
CMN 101	Fundamentals of Speech	3	SPMS 1185	Public Speaking	3
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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
MAT 161	Computer Programming and Application	4	CS 1570	Intro to Programming (C++)	4
ENG 220 and ENG 221	Applied Mechanics (Statics) and Dynamics	3	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics <small>(Both courses combined will satisfy a required engineering science elective.)</small>	6
ENG 270	Circuit Analysis	3	EE 2100**	Circuits I <small>**A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.</small>	3
MAT 215	Intro to 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		31
Group 1 Core Requirements		40	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
CMN 101	Fundamentals of Speech	3	SPMS 1185	Public Speaking	3
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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
MAT 161	Computer Programming and Application	4	CS 1570	Intro to Programming (C++)	4
ENG 220 and ENG 221	Applied Mechanics (Statics) and Dynamics	3	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics <small>(Both courses combined will satisfy a required engineering science elective.)</small>	6
ENG 270	Circuit Analysis	3	EE 2100**	Circuits I <small>**A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.</small>	3
MAT 215	Intro to 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		31
Group 1 Core Requirements		40	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 or	
HIS 102 or	History of Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
POS 101	American Politics		POL SCI 1200	American Government	
EGL 102 or	Composition II or		ENGLISH 1160 or	Writing and Research or	
CMN 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
ENG 270	Circuit Analysis	3	EE 2800	Circuit Analysis I	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
IND 199	Thermodynamics	3	MECH 2527	Thermal Analysis	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	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		25	Group 2 Major Requirements		30
Group 1 Core Requirements		40	Group 1 Core Requirements		34
Total Hours		65	Total Hours*		64

*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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102 or	Composition II or		ENGLISH 1160 or	Writing and Research or	
CMN 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 (preferred) or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 (preferred) or	
HIS 102	History of Western Civilization	3	HISTORY 1200	Modern Western Civilization	3
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
BIO 101	General Biology	4	BIO SCI 1113	General Biology	4
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	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		40	Group 1 Core Requirements		34
Total Hours		64	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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102 or	Composition II or		ENGLISH 1160 or	Writing and Research or	
CMN 101	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 or	
HIS 102 or	History of Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
POS 101	American Politics		POL SCI 1200	American Government	
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
BIO 101 or	General Biology or		BIO SCI 1113 or	General Biology or	
CHE 102 or	General Chemistry II or		CHEM 1320 or	General Chemistry II or	
CHE 201	Organic Chemistry I	4	CHEM 2210	Organic Chemistry I	
	<i>See your advisor for course options.</i>			<i>or any 3-hour course in chemistrv. geochemistrv. or biologv</i>	
	<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
	<i>No free electives applied to the degree.</i>			Maximum Free Electives	0
Group 2 Major Requirements		20	Group 2 Major Requirements		21
Group 1 Core Requirements		40	Group 1 Core Requirements		34
Total Hours		60	Total Hours*		55

*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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
CPC 120 or MAT 161	C++ Programming Level I or Computer Programming and Application	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)	3 4
ENG 270	Circuit Analysis	3	EE 2800	Circuit Analysis I	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
MAT 215	Intro to Linear Algebra	3	MATH 3108	Linear Algebra I <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	3
				Literature 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	18
	Group 1 Core Requirements	40		Group 1 Core Requirements	34
	Total Hours	53		Total Hours*	52

*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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 111 or HIS 112 or HIS 102 or POS 101	United States History to 1877 or United States History Since 1877 or History of Western Civilization or American Politics	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 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHE 201 or ENG 270	Organic Chemistry I or Circuit Analysis	3	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	20		Group 2 Major Requirements	29
	Group 1 Core Requirements	40		Group 1 Core Requirements	34
	Total Hours	60		Total Hours*	63

*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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 or	
HIS 102 or	History of Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
POS 101	American Politics		POL SCI 1200	American Government	
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200*	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350*	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210*	Mechanics of Materials	3
			*The combination of CIV ENG 2200 and MECH ENG 2350 will be substituted for MECH ENG 2340. The Combination of CIV ENG 22000 and 2210 and MECH ENG 2350 will be substituted for MI ENG 3812		
				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		56			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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 or	
HIS 102 or	History of Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
POS 101	American Politics		POL SCI 1200	American Government	
CPC 120 or	C++ Programming Level I or		CS 1971, 1981 or	Intro to Programming Method and Lab (C++) or	3
MAT 161	Computer Programming and Application	3	CS 1570	Intro to Programming (C++)	4
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	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		56			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>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 111 or	United States History to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 112 or	United States History Since 1877 or		HISTORY 1310 or	American History since 1877 or	
HIS 102 or	History of Western Civilization or	3	HISTORY 1200 or	Modern Western Civilization or	3
POS 101	American Politics		POL SCI 1200	American Government	
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
IND 199	Thermodynamics	3	MECH ENG 2527	Thermal Analysis	3
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	0
				Group 2 Major Requirements	18
				Group 1 Core Requirements	34
Total Hours		53			Total Hours* 52

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