

Lincoln Land Community College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2023

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 I	Grade of C or better is required. 4	
MAT 132	Calculus and Analytical Geometry II	5		MATH 1215	Calculus II	Grade of C or better is required. 4	
MAT 233	Calculus and Analytical Geometry III	4		MATH 2222	Calculus III	Grade of C or better is required. 4	
MAT 235	Differential Equations	4		MATH 3304	Elementary Differential Equations	3	
PHY 201 and	Physics I and			PHYSICS 1135 and	Engineering Physics I and		
PHY 202	Physics II	8		PHYSICS 2135	Engineering Physics II	Grade of C or better is required. 8	
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	Principles of Economics I-Microeconomics or			ECON 1100 or	Principles of Microeconomics or		
ECO 132	Principles of Economics II-Macroeconomics	3		ECON 1200	Principles of Macroeconomics	3	
Total Hours			36	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 art, English and technical communication, etymology, foreign language, music, philosophy, speech and media studies, or theatre. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions. See Missouri S&T online catalog at <https://catalog.mst.edu/undergraduate/degreeprogramsandcourses/> for more information.

Aerospace 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 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 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
ENG 270	Circuit Analysis	3	EE 2800	Electrical Circuits	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		Literature Elective	3
	Ethics Elective	3		Ethics Elective <small>Engineering, business, bio, social or other ethics approved by advisor.</small>	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	24
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	58

*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	2
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
BDM 120	Surveying and Building Layout	3	CIV ENG 2401	Fundamentals of Surveying	3
HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3
ACT 113	Architectural and Construction History	3	ART 3203	Architectural Design I	3
GEO 101	Physical Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	26		Group 2 Major Requirements	23
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	57

*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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics-Statics
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials
CHE 201	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I <small>(Will satisfy the advanced chemistry elective requirement.)</small>
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II
EGL 102 or CMN 101 or HSS Elective	Composition 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 Principles of Speech 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	25		Group 2 Major Requirements
	Group 1 Core Requirements	36		Group 1 Core Requirements
	Total Hours	61		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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II
CHE 201	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I and Lab* <small>*The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).</small>
CHE 202	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II <small>(Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)</small>
MAT 161	CMPTR Prog & Apps for Engineer	4	CS 1500	Computational Problem Solving
CMN 101	Fundamentals of Speech	3	SP&MS 1185	Principles of Speech
	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	27		Group 2 Major Requirements
	Group 1 Core Requirements	36		Group 1 Core Requirements
	Total Hours	63		Total Hours*
				56

*S&T advisor permission is required to transfer more than 68 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>		
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHE 201	Organic Chemistry I	5	CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) <small>*The lab is not required for the degree, will transfer as 1 of the 9 science elective credits (below).</small>	4
CHE 202	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II <small>(Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.)</small>	3
MAT 161	CMPTR Prog & Apps for Engineer	4	CS 1500	Computational Problem Solving	3
CMN 101	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	27		Group 2 Major Requirements	22
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	63		Total Hours*	56

*S&T advisor permission is required to transfer more than 70 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 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
GEO 101	Physical Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics - Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics - Dynamics	2
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
BDM 120	Surveying and Building Layout	3	CIV ENG 2401	Fundamentals of Surveying	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	26		Group 2 Major Requirements	23
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	57

*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	Principles of Speech	3
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
MAT 220	Discrete Structures	3	CS 1200	Discrete Math for Computer Science	3
MAT 161	CMPTR Prog & Apps for Engineer	4	CS 1500	Computational Problem Solving	3
ENG 220 or ENG 221 or CHE 201	Applied Mechanics (Statics) or Dynamics or Organic Chemistry I (5)	3	CIV ENG 2200 or MECH ENG 2350 or CHEM 2210	Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) or Organic Chemistry I (3) <small>Satisfies a required engineering/science elective.</small>	3
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
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	31		Group 2 Major Requirements	30
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	64

*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	SP&MS 1185	Principles of Speech	3
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
MAT 161	CMPTR Prog & Apps for Engineer	4	CS 1500	Computational Problem Solving	3
ENG 220 and ENG 221 OR CHE 201	Applied Mechanics (Statics) (3) and Dynamics (3) OR Organic Chemistry I (5)	5	CIV ENG 2200 and MECH ENG 2350 <small>(BOTH of the courses above or ONE of the courses below.)</small> OR CHEM 2210, 2219	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) <small>(Both courses above combined or any one of the following courses will satisfy a required engineering science elective.)</small> OR Organic Chemistry I and Lab (4)	3
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
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	30		Group 2 Major Requirements	27
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	66		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 Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
EGL 102	Fundamentals of Speech	3	SPMS 1185	Principles of Speech	3
EGL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
ENG 270	Circuit Analysis	3	EE 2800	Electrical Circuits	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics - Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics - Dynamics	2
IND 199	Thermodynamics	3	MECH 2527	Thermal Analysis	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	3		Maximum Free Electives	3
	Group 2 Major Requirements	34		Group 2 Major Requirements	32
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	70		Total Hours*	66

*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 CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SP&MS 1185	Writing and Research or Principles of Speech	3
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	3
GEO 101	Physical Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHE 102	General Chemistry II	4	CHEM 1320	General Chemistry II	3
BIO 101	General Biology	4	BIO SCI 1113	General Biology	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics - Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics - Dynamics	2
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	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	31		Group 2 Major Requirements	26
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	60

*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

<u>Lincoln Land Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
GEO 101	Physical Geology	4	GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2200	Engineering Mechanics - Statics	3
ENG 221	Dynamics	3	MECH ENG 2350	Engineering Mechanics - Dynamics	2
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
BIO 101 or CHE 102 or CHE 201	General Biology or General Chemistry II or Organic Chemistry I	4	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	30		Group 2 Major Requirements	26
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	66		Total Hours*	60

*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 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH 1160 or SP&MS 1185	Writing and Research or Principles of Speech	3
ENG 270	Circuit Analysis	3	EE 2800	Electrical Circuits	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/Computer Science elective requirement.)</small>	3
	Literature Elective	3		Literature 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	25		Group 2 Major Requirements	24
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	61		Total Hours*	58

*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 SP&MS 1185	Writing and Research or Principles of Speech	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 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 Chemisrty I or Circuit Analysis	3	CHEM 2210, 2219 or EE 2800	Organic Chemistry I (4) or Electrical Circuits (3)	3
				<i>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.</i>	
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	5		Maximum Free Electives	3
	Group 2 Major Requirements	31		Group 2 Major Requirements	27
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	61

*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 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History since 1877 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	2
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
GEO 101	Physical Geology	4	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	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	26		Group 2 Major Requirements	23
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	62		Total Hours*	57

*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

Nuclear 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 SP&MS 1185	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	3
MAT 215	Intro to Linear Algebra	3		MATH 3108	3
ENG 220	Applied Mechanics (Statics)	3		CIV ENG 2200	3
ENG 240	Mechanics of Materials	4		CIV ENG 2210	3
ENG 270	Circuit Analysis	3		EE 2800	3
	Humanities/Social Science Elective	3			3
	Humanities/Social Science Elective	3			3
	Maximum Free Electives	6			6
	Group 2 Major Requirements	31			30
	Group 1 Core Requirements	36			34
	Total Hours	67		Total Hours*	64

*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

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	3
HIS 102 or HIS 111 or HIS 112 or POS 101	History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3		HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	3
GEO 101	Physical Geology	4		GEOLOGY 1110 (GEO ENG 1150)	3
ENG 220	Applied Mechanics (Statics)	3		CIV ENG 2200	3
ENG 221	Dynamics	3		MECH ENG 2350	2
ENG 240	Mechanics of Materials	4		CIV ENG 2210	3
IND 199	Thermodynamics	3		MECH ENG 2527	3
	Humanities/Social Science Elective	3			3
	Humanities/Social Science Elective	3			3
	<i>No free electives applied to the degree.</i>	0			0
	Group 2 Major Requirements	29			26
	Group 1 Core Requirements	36			34
	Total Hours	65		Total Hours*	60

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