Lincoln Land Community College — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2021

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

	Engineering students take all Group 1 - Core	Require	ments and Gro	up 2 - Major Requirem	ents for major of choice. Math prerequisites: while they	
	Lincoln Land Community College		Semester		Missouri S&T	
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 Ho	urs 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

Aerospace Engineering
Architectural Engineering
Ceramic Engineering
Chemical 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 Humanities/Social Science (HSS) Electives: HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language

	Aerospace Enginee	ering	g Group 2	Major Requirements		
	Lincoln Land Community College	<u>s</u>	Semester .	Missouri S&T		
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 HISTORY HISTORY POL SCI 1	1310 or American History since 1877 or 1200 or Modern Western Civilization or		3
EGL 102 or CMN 101	Composition II or Fundamentals of Speech	3	ENGLISH SP&MS 11			3
CPC 120 ENG 270	C++ Programming Level I Circuit Analysis	3	CS 1971, 1 EE 2800	1981 or Intro to Programming Method and Lab (C+- Circuit Analysis I	+)	3
ENG 220	Applied Mechanics (Statics)	3	CIV ENG 2			3
ENG 240	Mechanics of Materials	4	CIV ENG 2	2210 Mechanics of Materials		3
MAT 215	Intro to Linear Algebra	3	MATH 310	Na Linear Algebra I (Will satisfy the Advanced Math/Comp Sci elective requireme	nt.)	3
EGL 201 or EGL 210 or EGL 147	Survey of British Literature I or Survey of American Literature: Colonial Era to Civil War or Women's Literature	3	ENGLISH ENGLISH ENGLISH	1221 or American Literature: 1600 to 1865 or	or	3
	See your advisor for course options.			Ethics Elective		3
	No free electives applied to the degree. Group 2 Major Requirements	0 25		Maximum Free Electives Group 2 Major Requirements		0 27
	Group 1 Core Requirements Total Hours	40 65		Group 1 Core Requirements 'S&I advisor permission is required to transfer more than 68 S&T Aerospace Engineering degree.	Total Hours* creats toward the	34 61

	Architectural E	ngine	ering Gr	oup 2 Majo	r Requirements	
	Lincoln Land Community College		Semester		Missouri S&T	
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) *HISTORY 1200 is preferred; 1300 or 1310 will also be accepted.	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
BDM 120	Surveying and Building Layout		3	CIV ENG 2401	Fundamentals of Surveying	3
EGL 102 or CMN 101	Composition II or Fundamentals of Speech		3	ENGLISH 1160 or SP&MS 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	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
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	2	0 16 10 66	,	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* 'S&I advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	0 24 34 58

	Ceramic En	gineeri	ng	Grou	p 2 Major	Requirements	
	Lincoln Land Community College		S	Semester		Missouri S&T	
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 (4 or 5) (Not a specific requirement. Will satisfy the advanced chemistry elective requirement.)	3
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 SP&MS 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	3
	See your advisor for course options.					Humanities/Social Science Elective	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	Total Hours	0 22 40 62			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* "S&1 advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	0 21 34 55

	Chemical Engin	eerii	ng Gro	up 2 Major	Requirements	
	Lincoln Land Community College		Semester	1	Missouri S&T	
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	3
CHE 201	Organic Chemistry I	5		CHEM 2210	Organic Chemistry I	4
CHE 202	Organic Chemistry II	5		CHEM 2220, 2219	Organic Chemistry II (Will satisfy science elective requirement. Select up to 9 hours from these options.)	9
MAT 161 or CPC 120	Computer Programming and Applications for Engineers or C++ Programming Level I	3		CS 1500 or CS 1971, 1981	Computational Problem Solving or Intro to Programming Method and Lab (C++) or	3
CMN 101	Fundamentals of Speech	3		SP&MS 1185	Principles of Speech	3
	See your advisor for course options. No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total I	0 26 40 Hours 66			Humanities/Social Science Elective Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours*	3 0 31 34 65

	Chemical Engineering	- E	Bioche	mical Engir	neering Emphasis	
	Lincoln Land Community College		Semester		Missouri S&T	
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	3
CHE 201	Organic Chemistry I	5		CHEM 2210	Organic Chemistry I	4
CHE 202	Organic Chemistry II	5		CHEM 2220, 2229	Organic Chemistry II and Lab (Will satisfy science elective requirement. Select up to 9 hours from these options.)	4
MAT 161 or CPC 120	Computer Programming and Applications for Engineers or C++ Programming Level I	3		CS 1500 or CS 1971, 1981	Computational Problem Solving (3) or Intro to Programming Method and Lab (C++)	3
CMN 101	Fundamentals of Speech	3		SP&MS 1185	Principles of Speech	3
	See your advisor for course options.				Humanities/Social Science Elective	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	26			Group 2 Major Requirements	26
	Group 1 Core Requirements	40			Group 1 Core Requirements	34
	Total Hours	66			Total Hours* S&I advisor permission is required to transfer more than /1 credits toward the S&T Chemical/Biochemical Engineering degree.	60

	Civil Engir	neerin	g (Group	2 Major Re	quirements	
	Lincoln Land Community College			Semester	-	Missouri S&T	
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 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
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	3
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
	See your advisor for course options.					Humanities/Social Science Elective	3
	No free electives applied to the degree.		0			Maximum Free Electives	0
	Group 2 Major Requirements		23			Group 2 Major Requirements	24
	Group 1 Core Requirements		40			Group 1 Core Requirements	34
		Total Hours	63			Total Hours* "S&1 advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.	58

	Computer Engine	erir	ng Gro	up 2 Major F	Requirements	
	Lincoln Land Community College		Semester	-	Missouri S&T	
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 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 220	Discrete Structures	3		CS 1200	Discrete Math for Computer Science	3
MAT 161 or CPC 120	Computer Programming and Applications for Engineers or C++ Programming Level I	3		CS 1500 or CS 1971,1981	Computational Problem Solving or Intro to Programming Methodology and Lab (C++)	3
ENG 220 and ENG 221 OR CHE 201	Applied Mechanics (Statics) and Dynamics OR Organic Chemistry I (5)	3		CIV ENG 2200 and MECH ENG 2350 (BOTH of the courses above or ONE of the courses below.) OR CHEM 2210, 2219	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) (Both courses above combined or any one of the following courses will satisfy a required engineering science elective.) OR Organic Chemistry I and Lab (4)	3
ENG 270	Circuit Analysis	3		EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MAT 215	Intro to Linear Algebra	3		MATH 3108	Linear Algebra (Will satisfy a required math elective.)	3
	See your advisor for course options.				Humanities/Social Science Elective	3
	See your advisor for course options.	0			Maximum Free Electives	3
	Group 2 Major Requirements	24			Group 2 Major Requirements	30
	Group 1 Core Requirements	40			Group 1 Core Requirements	34
	Total Hours	64			$\label{total hours} Total \ Hours^* \\ \hbox{S\&1 advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.}$	64

	Electrical En	ginee	rin	g Grou	ı <mark>p 2 Major R</mark>	equirements	
	Lincoln Land Community College			Semester		Missouri S&T	
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 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 Applications Engineers	s for	3		CS 1500	Computational Problem Solving	3
ENG 220 and ENG 221 OR CHE 201	Applied Mechanics (Statics) and Dynamics OR Organic Chemistry I (5)		3		CIV ENG 2200 and MECH ENG 2350 (BOTH of the courses above or ONE of the courses below.) OR CHEM 2210, 2219	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) (Both courses above combined or any one of the following courses will satisfy a required engineering science elective.) OR Organic Chemistry I and Lab (4)	3
ENG 270	Circuit Analysis		3		EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MAT 215	Intro to Linear Algebra		3		MATH 3108	Linear Algebra	3
	See your advisor for course options. See your advisor for course options. Group 2 Major Requirements Group 1 Core Requirements	Total Hours	21 40 61			Humanities/Social Science Elective Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours*	3 27 34 61
						*S&I advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	

	Engineering M	lanage	m	ent Gr	oup 2 Major	Requirements	
	Lincoln Land Community College			Semester		Missouri S&T	
PSY 101	Intro to Psychology		3		PSYCH 1101	General Psychology	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
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
CPC 120	C++ Programming Level I		3		CS 1971, 1981	Intro to Programming Methodolgy and Lab (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 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
	See your advisor for course options.					Humanities/Social Science Elective	3
	See your advisor for course options.					Maximum Free Electives	3
	Group 2 Major Requirements		28			Group 2 Major Requirements	33
	Group 1 Core Requirements		40			Group 1 Core Requirements	34
	·	Total Hours	68			Total Hours* "S&1 advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	67

	Environmental	Engine	ering G	roup 2 Maj	or Requirements	
	Lincoln Land Community College		Semester		Missouri S&T	
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 111 or HIS 112 or HIS 102	United States History to 1877 or United States History Since 1877 or History of Western Civilization	3		HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History since 1877 or Modern Western Civilization	3
GEO 101	Physcial 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	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
	See your advisor for course options.				Humanities/Social Science Elective	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	28			Group 2 Major Requirements	28
	Group 1 Core Requirements	40			Group 1 Core Requirements	34
		Total Hours 68			Total Hours* "S&I advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	62

	Geological E	ngine	erii	ng Gro	up 2 Major	Requirements	
	Lincoln Land Community College			Semester		Missouri S&T	
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 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
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	3
ENG 240	Mechanics of Materials		4		CIV ENG 2210	Mechanics of Materials	3
BIO 101 or CHE 102 or CHE 20	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 or any 3-hour course in chemistry, geochemistry, or biology. Satisfies Chemistry/geochemistry elective requirement.	3
	See your advisor for course options.					Humanities/Social Science Elective	3
	See your advisor for course options.					Humanities/Social Science Elective	3
	No free electives applied to the degree.		0			Maximum Free Electives	0
	Group 2 Major Requirements		24			Group 2 Major Requirements	27
	Group 1 Core Requirements		40			Group 1 Core Requirements	34
		Total Hours	64			Total Hours* "S&I advisor permission is required to transfer more than 68 credits toward the S&T Geological Engineering degree.	61

Mechanical Engineering Group 2 Major Requirements									
	Lincoln Land Community College		Semester		Missouri S&T				
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 SP&MS 1185	Writing and Research or Principles of Speech	3			
CPC 120 ENG 270	C++ Programming Level I Circuit Analysis	3		CS 1971, 1981 EE 2800	Intro to Programming Method and Lab (C++) Circuit Analysis I	3			
ENG 220 ENG 240	Applied Mechanics (Statics) Mechanics of Materials	3		CIV ENG 2200 CIV ENG 2210	Engineering Mechanics-Statics Mechanics of Materials	3			
MAT 215	Intro to Linear Algebra	3		MATH 3108	Linear Algebra I (Will satisfy the Advanced Math/Computer Science elective requirement.)	3			
EGL 201 or EGL 210 or EGL 147	Survey of British Literature I or Survey of American Literature: Colonial Era to Civil War or Women's Literature	3		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 2242 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or Literature by Women or (or other literature elective)	3			
	See your advisor for course options.				Humanities/Social Science Elective	3			
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 25 40			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	0 27 34			
	Total Hours	65			Total Hours* S&I advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	61			

	Metallurgical Engineering Group 2 Major Requirements										
	Lincoln Land Community College			Semester		Missouri S&T					
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 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 Chemisrty I or Circuit Analysis		3		CHEM 2210, 2219 or EE 2800	Organic Chemistry I (4) or Electrical Circuits (3) Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.	3				
	See your advisor for course options.					Humanities/Social Science Elective	3				
	See your advisor for course options.					Humanities/Social Science Elective	3				
	See your advisor for course options.		5			Maximum Free Electives	5				
	Group 2 Major Requirements		25			Group 2 Major Requirements	29				
	Group 1 Core Requirements		40			Group 1 Core Requirements	34				
		Total Hours	65			Total Hours* "S&I advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	63				

Mining Engineering Group 2 Major Requirements									
	Lincoln Land Community College		Semester		Missouri S&T				
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			
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	2		CIV ENG 2210*	Mechanics of Materials	3			
					2200 and MECH ENG 2350 will be substituted for MECH ENG 2340. The combination of CI NG 2350 will be substituted for MI ENG 3812.	V ENG			
GEO 101	Physical Geology	2		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3			
	See your advisor for course options.				Humanities/Social Science Elective	3			
	See your advisor for course options.				Humanities/Social Science Elective	3			
	No free electives applied to the degree.	(Maximum Free Electives	0			
	Group 2 Major Requirements	2)		Group 2 Major Requirements	24			
	Group 1 Core Requirements	4)		Group 1 Core Requirements	34			
		Total Hours 6)		Total Hours* "S&I advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.	58			

Nuclear Engineering Group 2 Major Requirements										
	Lincoln Land Community College		Semester		Missouri S&T					
EGL 102	Composition II	;		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 215	Intro to Linear Algebra	3		MATH 3108	Linear Algebra	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				
	See your advisor for course options.				Humanities/Social Science Elective	3				
	See your advisor for course options.				Humanities/Social Science Elective	3				
	See your advisor for course options.	6			Maximum Free Electives	6				
	Group 2 Major Requirements	2	2		Group 2 Major Requirements	27				
	Group 1 Core Requirements	4)		Group 1 Core Requirements	34				
		Total Hours 6	2		Total Hours* "S&I advisor permission is required to transfer more than 68 credits toward the S&T Nuclear Engineering degree.	61				

	Petroleum Engineering Group 2 Major Requirements									
	Lincoln Land Community College		Semes	<u>ter</u>	Missouri S&T					
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				
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	3				
ENG 240	Mechanics of Materials		4	CIV ENG 2210	Mechanics of Materials	3				
IND 199	Thermodynamics		3	MECH ENG 2527	Thermal Analysis	3				
	See your advisor for course options.				Humanities/Social Science Elective	3				
	See your advisor for course options.				Humanities/Social Science Elective	3				
	No free electives applied to the degree.		0		Maximum Free Electives	0				
	Group 2 Major Requirements		23		Group 2 Major Requirements	27				
	Group 1 Core Requirements		40		Group 1 Core Requirements	34				
	Т,	otal Hours	63		Total Hours* - S&1 advisor permission is required to transfer more than 68 credits toward the S&T Petroleum Engineering degree.	61				