Lincoln Land Community College — Missouri S&T General Engineering

Transfer Guide Effective as of Fall 2024

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.

	Lincoln Land Community College		Semester		Missouri S&T	
MAT 131	Calculus and Analytic Geometry I	5	,	MATH 1214	Calculus I Grade of C or better is required.	4
MAT 132	Calculus and Analytic Geometry II	5		MATH 1215	Calculus II Grade of C or better is required.	4
MAT 233	Calculus and Analytic 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 PHY 202	Physics I and Physics II Both courses must be taken to receive full transfer credit.	8		PHYSICS 1135 and PHYSICS 2135	Engineering Physics I and Engineering Physics II Grade of C or better is required. The combination of LLCC PHY 201 and 202 is equivalent to the combination of S&T PHYSICS 1135 and 2135. Both LLCC courses must be taken to receive full transfer creit.	8
CHE 101	General Chemistry I	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	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
Biomedical Engineering/Biomanufacturing or Biomaterials
Ceramic Engineering
Chemical Engineering and 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 Eng	gineeri	ng	Group	2 Major	Requirements	
	Lincoln Land Community College			Semester		Missouri S&T	
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	H H	ISTORY 1200 or ISTORY 1300 or ISTORY 1310 or OL 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	_	NGLISH 1160 or PMS 1185	Writing and Research or Principles of Speech	3
ENG 270	Circuit Analysis		3	E	E 2800	Electrical Circuits	3
ENG 220	Statics		3	C	IV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials		4	C	IV ENG 2210	Mechanics of Materials	3
MAT 215	Intro to Linear Algebra		3	N	IATH 3108	Linear Algebra I Will satisfy the Advanced Math/Comp Sci elective requirement.	3
	Literature Elective		3			Literature Elective	3
Ethics	Ethics Elective Any engineering, business, bio, social ethics approved by advisor.		3	E	thics	Ethics Elective Any engineering, business, bio, social ethics approved by advisor.	3
	No free electives applied to the degree.		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* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	58

	Lincoln Land Community College		<u>Semester</u>		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) 'HIS 102 is preferred; 111 or 112 will also be accepted.	3	(or	ISTORY 1200* or HISTORY 1300 or ISTORY 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	Statics	3	CIV	IV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3	ME	ECH ENG 2350	Engineering Mechanics-Dynamics	2
ENG 240	Mechanics of Materials	4	CIV	IV ENG 2210	Mechanics of Materials	3
BDM 120	Surveying and Building Layout	3	CI\	IV ENG 2401	Fundamentals of Surveying	3
GEO 101	Physical Geology	4		EOLOGY 1110 SEO ENG 1150)	Physical and Environmental Geology	3
Humanities or Social Science or Communication	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language or one communication course from this list: EGL 102, CMN 101	3	So	umanities or ocial Science or ommunication	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language or one communication course from this list: ENGLISH 1160, 1600, 3560 or SPMS 1185.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	23			Group 2 Major Requirements	20
	Group 1 Core Requirements	36			Group 1 Core Requirements	34
	Total Hours	59			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	54

	Biomedical Engineering-Biomanufacturing Group 2 Major Requirements									
CMN 101	Lincoln Land Community College Fundamentals of Speech	3	Semester	SP&MS 1185	<u>Missouri S&T</u> 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				
CHE 102	General Chemistry II	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3				
CHE 201	Organic Chemistry I	5		CHEM 2210, 2219	Organic Chemistry I and Lab	4				
CHE 202 or BIO 101 or BIO 111	Organic Chemistry II (5) or General Biology (4) or Principles of Biology I (4)	4		CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or General Genetics Applies to degree as Track Elective.	4				
MAT 161	Computer Programming and Applications for Engineers	4		CS 1500	Computational Problem Solving	3				
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3				
	No free electives applied to the degree.	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* "S&T advisor permission is required to transfer more than 68 credit hours toward the degree.	57				

	Biomedical I	Ξng	gineeri	ng-Biomate	rials	
	Group 2	Ma	ajor Re	equirements		
CMN 101 HIS 102 or HIS 111 or HIS 112 or POS 101	Lincoln Land Community College Fundamentals of Speech History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	Semester	SP&MS 1185 HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Missouri S&T Principles of Speech 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, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
CHE 201	Organic Chemistry I	5		CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHE 202	Organic Chemistry II	5		CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIO 101 or BIO 111	General Biology (4) or Principles of Biology I (4)	4		BIO SCI 1113*, 1219*	General General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
MAT 161	Computer Programming and Applications for Engineers	4		CS 1500	Computational Problem Solving	3
ENG 220	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	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. Applies to the degree as a Track Elective (Engineering).	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	34			Group 2 Major Requirements	30
	Group 1 Core Requirements	36			Group 1 Core Requirements	34
	Total Hours	70			Total Hours* "S&T advisor permission is required to transfer more than 65 credits toward the S&T Biomedicall Engineering degree.	64

	Ceramic Engineerir	ng	Group	2 Major I	Requirements	
	Lincoln Land Community College		Semester		Missouri S&T	
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 201	Organic Chemistry I	5		CHEM 2210	Organic Chemistry I Will satisfy the advanced chemistry elective requirement.	3
CHE 102	General Chemistry II	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
EGL 102 or CMN 101 or HSS Elective	Composition II or Fundamentals of Speech or Any 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 Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	28			Group 2 Major Requirements	24
	Group 1 Core Requirements Total Hours	36 64			Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	34 58

	Chemical Engineering or Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements										
	Lincoln Land Community College		Semester		Missouri S&T						
CMN 101 HIS 102 or HIS 111 or HIS 112 or POS 101	Fundamentals of Speech History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3		SP&MS 1185 HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Principles of Speech 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, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3					
CHE 201	Organic Chemistry I	5		CHEM 2210, 2219*	Organic Chemistry I and Lab* *The lab will apply to the degree as 1 of 9 required science elective credits (below) .	4					
CHE 202	Organic Chemistry II	5		CHEM 2220	Organic Chemistry II (3) CHEM 2220 will apply to the degreee as 3 of 9 required science elective credits. CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.	8					
MAT 161	Computer Programming and Applications for Engineers	4		CS 1500	Computational Problem Solving	3					
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3					
	No free electives applied to the degree.	0			Maximum Free Electives	0					
	Group 2 Major Requirements Group 1 Core Requirements Total Hours	27 36 63			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	27 34 61					

	Civil 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 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	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 or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3					
	No free electives applied to the degree.	0			Maximum Free Electives	0					
	Group 2 Major Requirements Group 1 Core Requirements	23 36			Group 2 Major Requirements Group 1 Core Requirements	20 34					
	Total Hours	59			Total Hours* "S&T advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.	54					

	Computer Engineeri	ng	Grou	p 2 Major R	equirements	
	Lincoln Land Community College		Semester		Missouri S&T	
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
ENG 220 or ENG 221 or CHE 201	Statics or Dynamics or Organic Chemistry I (5)	3		CIV ENG 2200 or MECH ENG 2350 or CHEM 2210, 2219*	Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) or Organic Chemistry I (3) and Lab* (1) Satisfies a required engineering/science elective. **CHEM 2219 is not an S&T degree requirement, will transfer as general elective credit.	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
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3
	Group 2 Major Requirements	27			Group 2 Major Requirements	27
	Group 1 Core Requirements Total Hours	36 63			Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	34 61

	Electrical Engineeri	ng	Group	2 Major Re	quirements	
I	incoln 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 102 or	History of Western Civilization or			HISTORY 1200 or	Modern Western Civilization or	
HIS 111 or	United States History to 1877 or	3		HISTORY 1300 or	American History to 1877 or	3
HIS 112 or	United States History Since 1877 or	3		HISTORY 1310 or	American History since 1877 or	3
POS 101	American Politics			POL SCI 1200	American Government	
MAT 161	Computer Programming and Applications for Engineers	4		CS 1500	Computational Problem Solving	3
ENG 220 and	Applied Mechanics (Statics) (3) and			CIV ENG 2200 and	Engineering Mechanics-Statics (3) and	
ENG 221	Dynamics (3))			MECH ENG 2350	Engineering Mechanics-Dynamics (2)	
	Both courses above combined or any one of the following courses will satisfy a	5		BOTH of the courses above or ONE	Both courses above combined or any one of the following courses will satisfy a	3
of the courses below.	required engineering science elective.	Ü		of the courses below.	required engineering science elective. OR	o
OR	OR			OR		
CHE 201	Organic Chemistry I (5)			CHEM 2210, 2219	Organic Chemistry I and Lab (4)	
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
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	3		Electives	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										
	Lincoln Land Community College		Semester	Missouri S&T							
PSY 101	Intro to Psychology	3	PSYCH 110	01 General Psychology	3						
HIS 102 or	History of Western Civilization or		HISTORY 1	1200 or Modern Western Civilization or							
HIS 111 or	United States History to 1877 or	2	HISTORY 1	1300 or American History to 1877 or	3						
HIS 112 or	United States History Since 1877 or	3	HISTORY 1	1310 or American History since 1877 or	3						
POS 101	American Politics		POL SCI 12	200 American Government							
			SPMS 1185	Principles of Speech	3						
EGL 102	Composition II	3	ENGLISH 1	1160 Writing and Research	3						
ENG 270	Circuit Analysis	3	EE 2800	Electrical Circuits	3						
ENG 220	Statics	3	CIV ENG 22	2200 Engineering Mechanics-Statics	3						
ENG 221	Dynamics	3	MECH ENG	G 2350 Engineering Mechanics-Dynamics	2						
ENG 240	Mechanics of Materials	4	CIV ENG 22	2210 Mechanics of Materials	3						
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities Social Scier	,,,,,,,,	3						
	No free electives applied to the degree.	3	Electives	Maximum Free Electives	0						
	Group 2 Major Requirements	28		Group 2 Major Requirements	26						
	Group 1 Core Requirements	36		Group 1 Core Requirements	34						
	Total Hours	64		Total Hours* "S&T advisor permission is required to transfer more than 68 credits toward the S&T Engineering Management degree.	61						

	Environmental Engine	eri	ng Gro	oup 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 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	Physcial Geology	4		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHE 102	General Chemistry II	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
BIO 101	General Biology	4		BIO SCI 1113, 1219*	General Biology *BIO SCI 1219 is not an S&T degree requirement. Will transfer as general elective credit.	3
ENG 220	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 or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	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* "S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	60

	Geological Engineering Group 2 Major Requirements							
	Lincoln Land Community College		Semester		Missouri S&T			
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	Computer Programming and Applications for Engineers	4		CS 1500	Computational Problem Solving	3		
GEO 101	Physcial Geology	4		GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3		
ENG 220	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 or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		
	No free electives applied to the degree.	0			Maximum Free Electives	0		
	Group 2 Major Requirements	27			Group 2 Major Requirements	23		
	Group 1 Core Requirements	36			Group 1 Core Requirements	34		
	Total Hours	63			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Geological Engineering degree.	57		

	Mechanical Engineer	ing	g Group 2 Major	Requirements	
	Lincoln Land Community College		Semester	Missouri S&T	
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	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
			CIV ENG 2210	Mechanics of Materials	3
MAT 215	Intro to Linear Algebra	3	MATH 3108	Linear Algebra I Will satisfy the Advanced Math/Statistics elective requirement.	3
	Literature Elective	3		Literature Elective	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	21		Group 2 Major Requirements	24
	Group 1 Core Requirements	36		Group 1 Core Requirements	34
	Total Hours	57		Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	58

	Metallurgical Enginee	rin	g Grou	p 2 Major I	Requirements	
HIS 102 or HIS 111 or HIS 112 or POS 101	Lincoln Land Community College History of Western Civilization or United States History to 1877 or United States History Since 1877 or American Politics	3	HI:	STORY 1200 or STORY 1300 or STORY 1310 or DL SCI 1200	Missouri S&T Modern Western Civilization or American History to 1877 or American History since 1877 or American Government	3
ENG 220	Statics	3	-	V ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	Cl	V ENG 2210	Mechanics of Materials	3
CHE 102	General Chemistry II	4	CH	HEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree reguirement. Will transfer as general credit.	3
CHE 201 or ENG 270	Organic Chemisrty I or Circuit Analysis	3		HEM 2210, 2219 or E 2800	Organic Chemistry I (3) and Lab (1) or Electrical Circuits (3) Not specifically required for the degree but will satisfy out-of-department technical elective requirement	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		umanities or ocial Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		umanities or ocial Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	5	Ele	ectives	Maximum Free Electives	3
	Group 2 Major Requirements	28			Group 2 Major Requirements	24
	Group 1 Core Requirements Total Hours	36 64			Group 1 Core Requirements Total Hours* *\$&T advisor permission is required to transfer more than 68 credits toward the \$&T Metallurgical Engineering degree.	34 58

	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 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	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 or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		
	No free electives applied to the degree.	0			Maximum Free Electives	0		
	Group 2 Major Requirements	26			Group 2 Major Requirements	23		
	Group 1 Core Requirements Total Hours	36 62			Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.	34 57		

	Nuclear Engineerin	g Group	2 Major Red	quirements	
	Lincoln Land Community College	Semeste	<u>r</u>	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 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 215	Intro to Linear Algebra	3	MATH 3108	Linear Algebra	3
ENG 220	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 240	Mechanics of Materials	4	CIV ENG 2210	Mechanics of Materials	3
ENG 270	Circuit Analysis	3	EE 2800	Electrical Circuits	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6
	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* "S&T advisor permission is required to transfer more than 68 credits toward the S&T Nuclear Engineering degree.	64

	Lincoln Land Community College		Semester		Missouri S&T	
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
GEO 101	Physical Geology	4		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
ENG 220	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
ENG 221	Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
				CIV ENG 2210	Mechanics of Materials	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3		Humanities or Social Science	Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	22			Group 2 Major Requirements	23
	Group 1 Core Requirements	36			Group 1 Core Requirements	34
	Total Hours	58			Total Hours* "S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.	57