

Lyon 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.

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
MTH 210	Calculus I	4	MATH 1214	Calculus I <small>Grade of C or better is required.</small>	4
MTH 220	Calculus II	4	MATH 1215	Calculus II <small>Grade of C or better is required.</small>	4
MTH 230	Calculus III	4	MATH 2222	Calculus III <small>Grade of C or better is required.</small>	4
MTH 300	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHY 240, 241	Fundamentals of Physics I and Lab	4	PHYSICS 1135	Engineering Physics I <small>Grade of C or better is required.</small>	4
PHY 250, 251	Fundamentals of Physics II and Lab	4	PHYSICS 2135	Engineering Physics II <small>Grade of C or better is required.</small>	4
CHM 110	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ECO 102 or ECO 101	Principles of Economics II or Principles of Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours		33	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 Engineering Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
MTH 330	Linear Algebra	3	MATH 3108	Linear Algebra I <i>Will satisfy the Advanced Math/Comp Sci elective requirement.</i>	3
	Literature Elective	3		Literature Elective	3
Ethics	Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3	Ethics	Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	48		Total Hours*	49

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

Architectural Engineering Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102	The United States I or The United States II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	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: EN 102.	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: ENGLISH 1160, 1600, 3560 or SPMS 1185.	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	6		Group 2 Major Requirements	6
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	39		Total Hours*	40

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

Biomedical Engineering-Biomanufacturing Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <i>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</i>	3
CHM 210	Organic Chemistry I	4	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 220	Organic Chemistry II	4	CHEM 2220, 2229	Organic Chemistry II and Lab <i>Applies to degree as Track Elective.</i>	4
CSC 100	Intro to Programming in C++	3	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	21		Group 2 Major Requirements	20
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	54		Total Hours*	54

*S&T advisor permission is required to transfer more than 68 credit hours toward the degree.

Biomedical Engineering-Biomaterials Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <i>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</i>	3
CHM 210	Organic Chemistry I	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* <i>*CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).</i>	4
CHM 220	Organic Chemistry II	4	CHEM 2220, 2229*	Organic Chemistry II and Lab* <i>CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).</i>	4
CSC 100	Intro to Programming in C++	3	CS 1500	Computational Problem Solving	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	18		Group 2 Major Requirements	17
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	51		Total Hours*	51

*S&T advisor permission is required to transfer more than 65 credits toward the S&T Biomedical Engineering degree.

Ceramic Engineering Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHM 210	Organic Chemistry I	4	CHEM 2210	Organic Chemistry I (3) <i>Will satisfy the advanced chemistry elective requirement.</i>	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <i>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</i>	3
PHY 335	Modern Physics	3	PHYSICS 2305	Intro to Modern Physics	3
ENG 102 or HSS Elective	English Composition II or Any history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language.	3	ENGLISH 1160 or HSS Elective	Writing and Research 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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	23		Group 2 Major Requirements	21
	Group 1 Core Requirements	33		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 Ceramic Engineering degree.

Chemical Engineering or Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <i>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</i>	3
CHM 210	Organic Chemistry I	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* <i>*The lab will apply to the degree as 1 of the 9 science elective credits (below).</i>	4
CHM 220	Organic Chemistry II	4	CHEM 2220, 2229*	Organic Chemistry II (3) and Lab* (1) <i>CHEM 2220 will partially satisfy the 9-hour science elective requirement. *CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.</i>	8
CSC 100	Intro to Programming in C++	3	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	21		Group 2 Major Requirements	24
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	54		Total Hours*	58

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

Civil Engineering Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	9		Group 2 Major Requirements	9
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	42		Total Hours*	43

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CSC 100	Intro to Programming in C++	3	CS 1500	Computational Problem Solving	3
CHM 210 or PHY 335	Organic Chemistry I (4) or Modern Physics (3)	3	PHYSICS 2305 or CHEM 2210, 2219* or	Intro to Modern Physics (3) or Organic Chemistry I (3) <small>Satisfies a required engineering/science elective. *CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.</small>	3
MTH 330	Linear Algebra	3	MATH 3108	Linear Algebra <small>Will satisfy a required math elective.</small>	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	21		Group 2 Major Requirements	18
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	54		Total Hours*	52

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CSC 100	Intro to Programming in C++	3	CS 1500	Computational Problem Solving	3
CHM 210 or PHY 335	Organic Chemistry I (4) or Modern Physics (3)	3	PHYSICS 2305 or CHEM 2210, 2219* or	Intro to Modern Physics (3) or Organic Chemistry I (3) <small>Satisfies a required engineering/science elective. *CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.</small>	3
MTH 330	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	21		Group 2 Major Requirements	21
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	54		Total Hours*	55

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSY 101	Intro to Psychology	3	PSYCH 1101	General Psychology	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	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
	<i>No free electives applied to the degree.</i>	3	Electives	Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	12
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	48		Total Hours*	61

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102	The United States I or The United States II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</small>	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	13		Group 2 Major Requirements	12
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	46		Total Hours*	46

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CSC 100	Intro to Programming in C++	3	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
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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	45		Total Hours*	46

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
MTH 330	Linear Algebra	3	MATH 3108	Linear Algebra I <small>Will satisfy the Advanced Math/Statistics elective requirement.</small>	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	48		Total Hours*	49

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

Metallurgical Engineering Group 2 Major Requirements

<u>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHM 120	General Chemistry II	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) <small>*CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.</small>	3
CHM 210 or PHY 335	Organic Chemistry I (4) or Modern Physics (3)	3	PHYSICS 2305 or CHEM 2210, 2219* or	Intro to Modern Physics (3) or Organic Chemistry I (3) <small>Not specifically required for the degree but will satisfy out-of-department technical elective requirement. *CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.</small>	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	3	Electives	Maximum Free Electives	3
	Group 2 Major Requirements	22		Group 2 Major Requirements	21
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	55		Total Hours*	55

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	45		Total Hours*	46

*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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
MTH 330	Linear Algebra	3	MATH 3108	Linear Algebra	3
PHY 335	Modern Physics	3	PHYSICS 2305	Intro to Modern Physics	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	24		Group 2 Major Requirements	24
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	57		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>Lyon College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
HIS 101 or HIS 102 or PSL 101	The United States I or The United States II or US Government Perspectives	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	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
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	12		Group 2 Major Requirements	12
	Group 1 Core Requirements	33		Group 1 Core Requirements	34
	Total Hours	45		Total Hours*	46

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