

# Eastern Illinois University — Missouri S&T

## General Engineering Transfer Guide

Effective as of Fall 2017

Complete Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice.

### Group 1 - Core Requirements: All Majors Take All Courses

Engineering students take all Group 1 - Core Requirements and Group 2 - Major Requirements for major of choice. Math prerequisites: While they are not part of Missouri S&T engineering degree requirements, algebra and trigonometry skills are critical to success in calculus. To prepare for entry into calculus, students should follow math placement testing and advising recommendations at their college.

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
MAT 1441G	Calculus and Analytical Geometry I	5	MATH 1214	Calculus for Engineers I	Grade of C or better is required. 4
MAT 2442	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	Grade of C or better is required. 4
MAT 2443	Calculus and Analytical Geometry III	4	MATH 2222	Calculus with Analytic Geometry III	Grade of C or better is required. 4
MAT 3501	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHY 1351G, 1352G and PHY 1361, 1362 and PHY 1371, 1372	General Physics I and Lab and General Physics II and Lab and General Physics III and Lab <small>EIU PHY 1351G, 1352G, 1361, 1362, 1371, 1372 must all be taken to receive credit for S&amp;T PHYSICS 1135 and 2135.</small>	12	PHYSICS 1135 and PHYSICS 2135	Engineering Physics I and Engineering Physics II	Grade of C or better is required. 4
CHM 1310G, 1315G	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 1000	Engineering Orientation	1	FR ENG 1100	Study and Careers in Engineering	1
INT 2043	Computer-Aided Engineering Graphics	3	MECH ENG 1720	Engineering Design with Computer Appl	3
ENG 1001G	Composition and Language	3	ENGLISH 1120	Exposition and Argumentation	3
ECN 2801G or ECN 2802G	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
<b>Total Hours</b>		<b>43</b>	<b>Total Hours</b>		<b>34</b>

### Group 2 - Major Requirements: Take All Courses for Major of Choice

Engineering students take all Group 1 - Core Requirements (above) and Group 2 - Major Requirements for chosen major from list below. See course requirements on following pages.

**Aerospace Engineering**  
**Architectural Engineering**  
**Ceramic Engineering**  
**Chemical Engineering**  
**Chemical Engineering/Biochemistry Emphasis**  
**Civil Engineering**  
**Computer Engineering**  
**Electrical Engineering**

**Engineering Management**  
**Environmental Engineering**  
**Geological Engineering**  
**Mechanical Engineering**  
**Metallurgical Engineering**  
**Mining Engineering**  
**Nuclear Engineering**  
**Petroleum Engineering**

Engineering Major Requirements are detailed on the following pages.

**Free Electives:** Some programs allow Free Electives as indicated within each major. Free Electives should be selected in consultation with your advisor and may not include remedial/deficiency courses, algebra, trigonometry, pre-calculus, or extra credits in required courses.

**Humanities/Social Science (HSS) Electives:** HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language. Missouri S&T approved HSS courses are listed at [ugs.mst.edu](http://ugs.mst.edu). Your campus may have additional acceptable options. Consult with your advisor or email [transfer@mst.edu](mailto:transfer@mst.edu) with questions.

## Aerospace Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>	<u>Semester</u>		<u>Missouri S&amp;T</u>
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C ENG 1002G or CMN 1310G	3	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov. Composition and Literature or Intro to Speech Communication	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 ENGLISH 1160 or SPMS 1185 Principles of Speech
PHY 3270	3	Intro to Circuit Analysis	EE 2800 Circuit Analysis I
PHY 2390	3	Statics	CIV ENG 2200 Engineering Mechanics-Statics
MAT 2550	3	Intro to Linear Algebra	MATH 3108 Linear Algebra I (Will satisfy the Advanced Math/Comp Sci elective requirement.)
<i>See your advisor for course options.</i>			Literature Elective
<i>See your advisor for course options.</i>			Ethics Elective
<i>No free electives applied to the degree.</i>			Maximum Free Electives
		Group 2 Major Requirements	Group 2 Major Requirements
		Group 1 Core Requirements	Group 1 Core Requirements
Total Hours		58	Total Hours* 55

\*S&T advisor permission is required to transfer more than 60 credits toward the S&T Aerospace Engineering degree.

## Architectural Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>	<u>Semester</u>		<u>Missouri S&amp;T</u>
PLS 1153G or HIS 2010 or HIS 2020	3	American Government and Constitution or History of US to 1877 or History of US Since 1877	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>
PHY 2390	3	Statics	CIV ENG 2200 Engineering Mechanics-Statics
PHY 2400	3	Dynamics	MECH ENG 2350 Engineering Mechanics-Dynamics
ENG 1002G or CMN 130G	3	Composition and Literature or Intro to Speech Communication	ENGLISH 1160 or SPMS 1185 or HSS Elective Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language
<i>No free electives applied to the degree.</i>			Maximum Free Electives
		Group 2 Major Requirements	Group 2 Major Requirements
		Group 1 Core Requirements	Group 1 Core Requirements
Total Hours		55	Total Hours* 46

\*S&T advisor permission is required to transfer more than 60 credits toward the S&T Architectural Engineering degree.

## Ceramic Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics
CHM 2440, 2445	Organic Chemistry I and Lab	4	CHEM 2210/2219	Organic Chemistry I and Lab (Not a specific requirement. Will satisfy technical elective requirement.)
CHM 1410, 1415	General Chemistry II and Lab	4	CHEM 1320	General Chemistry II
ENG 1002G or CMN 130G	Composition and Literature or Intro to Speech Communication	3	ENGLISH 1160 or SPMS 1185 or HSS Elective	Writing and Research or Public Speaking or Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine Humanities/Social Science Elective
<i>See your advisor for course options.</i>			<b>Maximum Free Electives</b>	
<i>No free electives applied to the degree.</i>			0	
Group 2 Major Requirements		17	Group 2 Major Requirements	
Group 1 Core Requirements		43	Group 1 Core Requirements	
Total Hours		60	Total Hours*	
			20	
			34	
			54	

\*S&T advisor permission is required to transfer more than 66 credits toward the S&T Ceramic Engineering degree.

## Chemical Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
CHM 1410, 1415	General Chemistry II and Lab	4	CHEM 1320	General Chemistry II
CHM 2440, 2445	Organic Chemistry I and Lab	4	CHEM 2210	Organic Chemistry I
CHM 2840,2845	Organic Chemistry II and Lab	4	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>No free electives applied to the degree.</i>			<b>Maximum Free Electives</b>	
			0	
Group 2 Major Requirements		18	Group 2 Major Requirements	
Group 1 Core Requirements		43	Group 1 Core Requirements	
Total Hours		61	Total Hours*	
			23	
			34	
			57	

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

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

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
CHM 1410, 1415	General Chemistry II and Lab	4	CHEM 1320	General Chemistry II
CHM 2440, 2445	Organic Chemistry I and Lab	4	CHEM 2210	Organic Chemistry I
CHM 2840,2845	Organic Chemistry II and Lab	4	CHEM 2220	Organic Chemistry II (Will satisfy science elective requirement.)
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>No free electives applied to the degree.</i>			<b>Maximum Free Electives</b>	
			0	
Group 2 Major Requirements		18	Group 2 Major Requirements	
Group 1 Core Requirements		43	Group 1 Core Requirements	
Total Hours		61	Total Hours*	
			23	
			34	
			57	

\*S&T advisor permission is required to transfer more than 71 credits toward the S&T Chemical/Biochemical Engineering degree.

## Civil Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G or CMN 1310G	Composition and Literature or Intro to Speech Communication	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
GEL 1300 or GEL 1400	Earth Science or Physical Geology	4	GEO 1110/GE 1150	Intro to Physical Geology	3
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2400	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>No free electives applied to the degree.</i>			Maximum Free Electives		0
Group 2 Major Requirements		16	Group 2 Major Requirements		18
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		59	Total Hours*		52

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

## Computer Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
CMN 1310G	Intro to Speech Communication	3	SPMS 1185	Public Speaking	3
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research	3
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
PHY 2390 and PHY 2400	Statics and Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
PHY 3270	Intro to 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 2550	Intro to Linear Algebra	3	MATH 3108	Linear Algebra (Will satisfy a required math elective.)	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>See your advisor for course options.</i>			Maximum Free Electives		3
Group 2 Major Requirements		21	Group 2 Major Requirements		27
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		64	Total Hours*		61

\*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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
CMN 1310G	Intro to Speech Communication	3	SPMS 1185	Public Speaking	3
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research	3
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov.	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
PHY 2390 and PHY 2400	Statics and Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics and Engineering Mechanics-Dynamics (Both courses combined will satisfy a required engineering science elective.)	6
PHY 3270	Intro to 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 2550	Intro to Linear Algebra	3	MATH 3108	Linear Algebra	3
<i>See your advisor for course options.</i>			Humanities/Social Science Elective		3
<i>See your advisor for course options.</i>			Maximum Free Electives		3
Group 2 Major Requirements		21	Group 2 Major Requirements		27
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		64	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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
PSY 1879G	Introductory Psychology	3	PSYCH 1101	General Psychology	3
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 or	3
PLS 1153G or	American Government and Constitution or		HISTORY 1200 or	Modern Western Civilization or	
HIS 3600C	US Constitution/National Gov.		POL SCI 1200	American Government	
ENG 1002G or	Composition and Literature or	3	ENGLISH 1160 or	Writing and Research or	
CMN 1310G	Intro to Speech Communication		SPMS 1185	Principles of Speech	3
PHY 3270	Intro to Circuit Analysis	3	CS 1972, 1982	Intro to MATLAB Programming and Lab	3
PHY 2390	Statics	3	EE 2800	Circuit Analysis I	3
PHY 2400	Dynamics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
			MECH ENG 2350	Engineering Mechanics-Dynamics	3
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective	3
	<i>See your advisor for course options.</i>			Maximum Free Electives	3
	Group 2 Major Requirements	18		Group 2 Major Requirements	27
	Group 1 Core Requirements	43		Group 1 Core Requirements	34
	Total Hours	61		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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G or	Composition and Literature or	3	ENGLISH 1160 or	Writing and Research or	3
CMN 1310G	Intro to Speech Communication		SPMS 1185	Principles of Speech	
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 (preferred) or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 (preferred) or	3
PLS 1153G or	American Government and Constitution		HISTORY 1200	Modern Western Civilization	
GEL 1300 or	Earth Science or	4			3
GEL 1400	Physical Geology		GEO 1110/GE 1150	Intro to Physical Geology	
CHM 1410, 1415	General Chemistry II and Lab	4	CHEM 1320	General Chemistry II	3
BIO 1010	General Biology	4	BIO SCI 1113	General Biology	4
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2400	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>			Maximum Free Electives	0
	Group 2 Major Requirements	24		Group 2 Major Requirements	25
	Group 1 Core Requirements	43		Group 1 Core Requirements	34
	Total Hours	67		Total Hours*	59

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

## Geological Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G or	Composition and Literature or	3	ENGLISH 1160 or	Writing and Research or	3
CMN 1310G	Intro to Speech Communication		SPMS 1185	Principles of Speech	
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 or	3
PLS 1153G or	American Government and Constitution or		HISTORY 1200 or	Modern Western Civilization or	
HIS 3600C	US Constitution/National Gov.		POL SCI 1200	American Government	
GEL 1300 or	Earth Science or	4			3
GEL 1400	Physical Geology		GEO 1110/GE 1150	Physical and Environmental Geology	
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2400	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
BIO 1010 or	General Biology or		BIO SCI 1113 or	General Biology or	
CHM 2440, 2445 or CHM 2840, 2845	Organic Chemistry I and Lab or Organic Chemistry II and Lab	4	CHEM 1320 or CHEM 2210	General Chemistry II or Organic Chemistry I	
	<i>See your advisor for course options.</i>			<i>or any 3-hour course in chemistry, geochemistry, or biology</i>	
	<i>See your advisor for course options.</i>			Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>			Humanities/Social Science Elective	3
	Group 2 Major Requirements	20		Maximum Free Electives	0
	Group 1 Core Requirements	43		Group 2 Major Requirements	21
	Total Hours	63		Group 1 Core Requirements	34
				Total Hours*	55

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

## Mechanical Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C ENG 1002G or CMN 1310G	History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov. Composition and Literature or Intro to Speech Communication	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 ENGLISH 1160 or SPMS 1185	American History to 1877 or American History since 1877 or Modern Western Civilization or American Government Writing and Research or Principles of Speech
PHY 3270 PHY 2390 MAT 2550	Intro to Circuit Analysis Statics Intro to Linear Algebra	3 3 3	EE 2800 CIV ENG 2200 MATH 3108	Circuit Analysis I Engineering Mechanics-Statics Linear Algebra I (Will satisfy the Advanced Math/Comp Sci elective requirement.) Literature Elective
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>No free electives applied to the degree.</i>			Maximum Free Electives	
Group 2 Major Requirements		9	Group 2 Major Requirements	
Group 1 Core Requirements		43	Group 1 Core Requirements	
Total Hours		52	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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
ENG 1002G or CMN 1310G HIS 2010 or HIS 2020 or PLS 1153G or HIS 3600C PHY 2390	Composition and Literature or Intro to Speech Communication History of US to 1877 or History of US Since 1877 or American Government and Constitution or US Constitution/National Gov. Statics	3	ENGLISH 1160 or SPMS 1185 HISTORY 1300 or HISTORY 1310 or HISTORY 1200 or POL SCI 1200 CIV ENG 2200	Writing and Research or Principles of Speech American History to 1877 or American History since 1877 or Modern Western Civilization or American Government Engineering Mechanics-Statics
CHM 1410,1415 CHM 2440, 2445 or PHY 3270	General Chemistry II and Lab Organic Chemistry I and Lab or Intro to Circuit Analysis	4 4	CHEM 1320 CHEM 2210 or EE 2800	General Chemistry II Organic Chemistry I or Electrical Circuits <i>Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement</i>
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>See your advisor for course options.</i>			Humanities/Social Science Elective	
<i>See your advisor for course options.</i>			Maximum Free Electives	
Group 2 Major Requirements		17	Group 2 Major Requirements	
Group 1 Core Requirements		43	Group 1 Core Requirements	
Total Hours		60	Total Hours*	
			60	

\*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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research	3
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 or	3
PLS 1153G or	American Government and Constitution or		HISTORY 1200 or	Modern Western Civilization or	
HIS 3600C	US Constitution/National Gov.		POL SCI 1200	American Government	
PHY 2390	Statics	3	CIV ENG 2200*	Engineering Mechanics-Statics	3
PHY 2400	Dynamics	3	MECH ENG 2350*	Engineering Mechanics-Dynamics	3
*The combination of CIV ENG 2200 and MECH ENG 2350 will be substituted for MECH ENG 2340.					
GEL 1300 or	Earth Science or				
GEL 1400	Physical Geology	4	GEO 1110/GE 1150	Intro to Physical Geology	3
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	0
Group 2 Major Requirements		16	Group 2 Major Requirements		21
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		59	Total Hours*		55

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

## Nuclear Engineering Group 2 Major Requirements

<u>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research	3
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 or	3
PLS 1153G or	American Government and Constitution or		HISTORY 1200 or	Modern Western Civilization or	
HIS 3600C	US Constitution/National Gov.		POL SCI 1200	American Government	
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	6
Group 2 Major Requirements		9	Group 2 Major Requirements		21
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		52	Total Hours*		55

\*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>Eastern Illinois University</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 1002G	Composition and Literature	3	ENGLISH 1160	Writing and Research	3
HIS 2010 or	History of US to 1877 or		HISTORY 1300 or	American History to 1877 or	
HIS 2020 or	History of US Since 1877 or	3	HISTORY 1310 or	American History since 1877 or	3
PLS 1153G or	American Government and Constitution or		HISTORY 1200 or	Modern Western Civilization or	
HIS 3600C	US Constitution/National Gov.		POL SCI 1200	American Government	
GEL 1300 or	Earth Science or				
GEL 1400	Physical Geology	4	GEO 1110/GE 1150	Physical and Environmental Geology	3
PHY 2390	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 2400	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	3
				Humanities/Social Science Elective	3
				Humanities/Social Science Elective	3
				Maximum Free Electives	0
Group 2 Major Requirements		10	Group 2 Major Requirements		15
Group 1 Core Requirements		43	Group 1 Core Requirements		34
Total Hours		53	Total Hours*		49

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