Eastern Illinois University — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2025

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

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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.

	Eastern Illinois University		Semester		Missouri S&T	
MAT 1441G	Calculus and Analytic Geometry I	5		MATH 1214	Calculus I Grade of C or better is required.	4
MAT 2442	Calculus and Analytic Geometry II	5		MATH 1215	Calculus II Grade of C or better is required.	4
MAT 2443	Calculus and Analytic Geometry III	4		MATH 2222	Calculus III Grade of C or better is required.	4
MAT 3501	Differential Equations I	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 EIU PHY 1351G, 1352G, 1361, 1362, 1371, 1372 must all be taken to receive credit for S&T PHYSICS 1135 and 2135.	12		PHYSICS 1135 and PHYSICS 2135	Engineering Physics I and Grade of C or better is required. Engineering Physics II Grade of C or better is required. EIU PHY 1351G, 1352G, 1361, 1362, 1371, 1372 must all be taken to receive credit for S&T PHYSICS 1135 and 2135.	8
PHY 1001	Intro to Physics and Engineering	1		FR ENG 1100	Study and Careers in Engineering and Computing	1
ENG 1001G	Composition and Language	3		ENGLISH 1120	Exposition and Argumentation	3
	Total Hours	33			Total Hours	27

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

	Aerospace Engin	eering	g Grou	p 2 Major R	equirements	
	Eastern Illinois University		Semester		Missouri S&T	
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 Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CIT 1813 PHY 3270	Intro to Programming (C++) Intro to Circuit Analysis Statics	3 3 3		CS 1971, 1981 EE 2800	Intro to Programming Method and Lab (C++) Electrical Circuits	3 3 3
PHY 2390 MAT 2550	Introduction to Linear Algebra	3		CIV ENG 2200 MATH 3108	Engineering Mechanics-Statics Linear Algebra I Will satisfy the Advanced Math/Comp Sci elective requirement.	3
Ethics	Ethics Elective or other engineering, business, bio, social ethics approved by advisor	3		Ethics	will satisfy the Advanced Matrix-Ohip Sci elective requirement. Ethics Elective or other engineering, business, bio, social ethics approved by advisor	3
	6 hours Human	nities and Fine oral and Social Y 1200, 1300	Arts from at le Sciences from , 1310, or POL		s and plines.	
	Selec		anities and F m at least two	ine Arts specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Salar		ral and Socia	al Sciences o specific disciplines.		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	, Arts, and So Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	art, 3		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Tota	37 33 Il Hours 70			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 Aerospace Engineering degree.	38 27 65

	Architectural En	gineeri	ng Gro	up 2 Major F	Requirements		
	Eastern Illinois University		Semester	i	Missouri S&T		
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 Applies to degree as Gen Ed Communication requirement.		3
CHM 1310G,1315G	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.		5
PHY 2390	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics		3
	From the	options listed i umanities and Fi 3 hours B TORY 1200, 130	n each group b ne Arts from at le ehavioral and So	SCI 1200 to satisfy the S	rde and		
	S			o specific disciplines.			
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.		6
		Behav	ioral and Socia Select 3 hou				
PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3		PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.		3
	No free electives applied to the degree.	0			Maximum Free Electives		0
	Group 2 Major Requirements Group 1 Core Requirements	19 30 Total Hours 52	3		Group 2 Major Requirements Group 1 Core Requirements	Total Hours*	20 27 47
					*S&T advisor permission is required to transfer more than 69 credits tow Architectural Engineering degree.	vard the S&T	

		_		_	-Biomanufacequirements		
	Eastern Illinois University			Semester	•	Missouri S&T	
CMN 1310G	Intro to Speech Communication		3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab		4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 1410, 1415	General Chemistry II and Lab		4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHM 2440, 2445	Organic Chemistry I and Lab		4		CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 2840, 2845 or BIO 1500	Organic Chemistry II and Lab or General Biology I		4		CHEM 2220, 2229* or BIO SCI 1213*, 1219	Organic Chemistry II and Lab*or Principles of Biology* Applies to degree as Track Elective. *BIO SCI 1213 will be substituted for 1113.	4
BIO 2210	Anatomy and Physiology I		4		BIO SCI 3333, 3359	Anatomy and Physiology I and Lab	4
CIT 1813	Intro to Programming (C++)		3		CS 1971,1981*	Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
		Humanities and 3 hour IISTORY 1200,	l Fine a s Beha 1300, luma	Arts from at leavioral and So 1310, or POI nities and F	ine Arts	and	
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	Select 6 nour	s tron	n at least two	o specific disciplines. HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Beh			al Sciences		
GEO 1200G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography American Governme Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	ent and	3	Select 3 hou	rs. HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	Total Hours	0 35 33 68			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	0 35 27 62

				ring-Biomate equirements		
	Eastern Illinois University		Semeste	<u>r</u>	Missouri S&T	
CMN 1310G	Intro to Speech Communication		3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab		4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 1410, 1415	General Chemistry II and Lab		4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHM 2440, 2445	Organic Chemistry I and Lab		4	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHM 2840, 2845 or BIO 1500	Organic Chemistry II and Lab		4	CHEM 2220, 2229*	Organic Chemistry II and Lab* Applies to degree as Track Elective.	4
BIO 1500	General Biology I		4	BIO SCI 1213*, 1219	Principles of Biology* *Applies to degree as Track Elective (Non-engineering). BIO SCI 1213 will be substituted for 1113.	4
BIO 2210	Anatomy and Physiology I		4	BIO SCI 3333, 3359	Human Anatomy and Physiology I and Lab	4
CIT 1813	Intro to Programming (C++)		3	CS 1971,1981*	Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
PHY 2390	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 3270	Intro to Circuit Analysis		3	ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) *A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100. Applies to the degree as a Track Elective (Engineering).	4
	*At least one course must be selected from HIST	3 hours ORY 1200, 1 Hi	Behavioral and S 300, 1310, or PO ımanities and I	L SCI 1200 to satisfy the St		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.		6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	•	Beha	vioral and Soci		•	
GEO 1200G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography American Government at Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		Select 3 hou	JIS. HISTORY 2110 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.		0		Maximum Free Electives	0
	Group 2 Major Requirements		45		Group 2 Major Requirements	46
	Group 1 Core Requirements		33 78		Group 1 Core Requirements Total Hours *S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.	27 * 73

	Ceramic Engin	eering	Group	2 Major Re	quirements	
	Eastern Illinois University		Semester		Missouri S&T	
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 Applies to degree as Gen Ed Communication requirement.	3
PHY 2390 CHM 1310G.1315G	Statics General Chemistry I and Lab	3 4		CIV ENG 2200 CHEM 1310, 1319	Engineering Mechanics-Statics General Chemistry I and Lab	3 5
CHM 1410, 1415	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHM 2440, 2445	Organic Chemistry I and Lab	4		CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) Satisfies the advanced chemistry elective requirement. *The lab is not a degree requirement, transfers as general elective credit.	3
	From the op 6 hours Huma	tions listed in anities and Fin ioral and Socia RY 1200, 130	each group be e Arts from at le al Sciences fron	•	lude and lines.	
	Sele			specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Sele		oral and Social om at least two	al Sciences o specific disciplines.		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	s, Arts, and Se Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	/, art, 3		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	33 33			Group 2 Major Requirements	32 27
	Group 1 Core Requirements Tol	tal Hours 66			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.	

	Chemical Enginee	ring - B	iochen		ering Emphasis	
	Gr	oup 2 N	lajor Re	equirements		
	Eastern Illinois University		Semester		Missouri S&T	
CMN 1310G	Intro to Speech Communication	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 1410, 1415	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHM 2440, 2445	Organic Chemistry I and Lab	4		CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2210 is a degree requirement. CHEM 2219 applies to the degree as 1 of 9 required science elective credits See note below.	4
CHM 2840, 2845	Organic Chemistry II and Lab	4		CHEM 2220, 2229*	Organic Chemistry II (3) and Lab* (1) CHEM 2220 applies to the degree as 3 of the 9 required science elective credits. CHEM 2229 is not a degree requirement; transfers as general elective credit.	3
CIT 1813	Intro to Programming (C++)	3		CS 1971,1981*	Intro to Programming Methodology and Lab* C++) "Will be substituted for CS 1500.	3
	6 hours H	lumanities and Firehavioral and Soci STORY 1200, 130	ne Arts from at le al Sciences fron	•	and ines.	
				o specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			oral and Socia			
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language 'Satisfies the State of Missouri government requirement.	Select 6 nours if	om at least (WC	Dispecific disciplines. HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	33 Total Hours 67			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.	33 27 60

From the options list 6 hours Humanities ar 6 hours Behavioral and at least one course must be selected from HISTORY 1200	ed in each group bond Fine Arts from at I Social Sciences from	ENGLISH 1160 or SPMS 1185 CHEM 1310, 1319 CIV ENG 2200 eneral Education Requirer elow, select 15 hours to include east two specific disciplines an n at least two specific discipline	e	3 5 3
o to Speech Communication neral Chemistry I and Lab titics Humanities, Arts, and S From the options list 6 hours Humanities ar 6 hours Behavioral and at least one course must be selected from HISTORY 1200	4 3 Social Sciences G ed in each group b nd Fine Arts from at I Social Sciences from	SPMS 1185 CHEM 1310, 1319 CIV ENG 2200 eneral Education Requiren elow, select 15 hours to include east two specific disciplines an n at least two specific discipline	Principles of Speech Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab Engineering Mechanics-Statics ents e	5
Humanities, Arts, and S From the options list 6 hours Humanities ar 6 hours Behavioral and at least one course must be selected from HISTORY 1200	3 Social Sciences G ed in each group be define Arts from at I Social Sciences from	CIV ENG 2200 eneral Education Requirent elow, select 15 hours to include east two specific disciplines and at least two specific disciplines.	Engineering Mechanics-Statics tents e	
Humanities, Arts, and S From the options list 6 hours Humanities ar 6 hours Behavioral and at least one course must be selected from HISTORY 1200	Social Sciences G ed in each group be define Arts from at I Social Sciences from	eneral Education Requiremelow, select 15 hours to include east two specific disciplines and at least two specific disciplines.	nents	3
From the options list 6 hours Humanities ar 6 hours Behavioral and at least one course must be selected from HISTORY 1200	ed in each group bond Fine Arts from at I Social Sciences from	elow, select 15 hours to includ east two specific disciplines an n at least two specific discipline	e	
	Humanities and F	ine Arts		
Select 6 not	urs from at least tw	o specific disciplines.		
story of US to 1877* or tory of US Since 1877* or Appreciation or Enjoyment of Music or Evolution of Jazz and Rock listes the State of Missouri government requirement.	6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation **Sattlefes the State of Missouri government requirement.	6
 -	havioral and Soci			
	urs from at least tw	o specific disciplines.		
orld Regional Geography or dValues: Intro to Philosophical Questions or jical and Critical Reasoning or terican Government and Constitution* or oductory Psychology or nciples of Microeconomics or mentary or Intermediate Foreign Language isfies the State of Missouri government requirement.	6	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
Huma				
	Select 3 hou	rs.		
manities, Arts, Social Sciences Elective: Any history, art, sic, theater, English and technical communication, losophy, political science, psychology, economics, mology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
free electives applied to the degree.	0		Maximum Free Electives	0
oup 2 Major Requirements oup 1 Core Requirements Total Hours	25 33 58		Group 2 Major Requirements Group 1 Core Requirements Total Hours* *\$81 advisor permission is required to transfer more than 69 credits toward the S&T Chil	26 27 53
m si lo	ductory Psychology or iples of Microeconomics or ciples of Microeconomics or ciples of Macroeconomics or lentary or Intermediate Foreign Language lies the State of Missouri government requirement. Huma anities, Arts, Social Sciences Elective: Any history, art, c, theater, English and technical communication, sophy, political science, psychology, economics, ology, or foreign language. The electives applied to the degree. The p 2 Major Requirements The control of Missouri Parketing Parketi	ductory Psychology or 6 siples of Microeconomics or ciples of Macroeconomics or ciples of Macroeconomics or ciples of Macroeconomics or ciples of Macroeconomics or lentary or Intermediate Foreign Language lies the State of Missouri government requirement. Humanities, Arts, and S Select 3 hou anities, Arts, Social Sciences Elective: Any history, art, c, theater, English and technical communication, sophy, political science, psychology, economics, ology, or foreign language. The electives applied to the degree. The p 2 Major Requirements Degree Requirements Degree Requirements Output Degree Requirements	ductory Psychology or oriples of Microeconomics or eliples of Microeconomics or eliples of Microeconomics or eliples of Microeconomics or eliples of Macroeconomics or electory or Intermediate Foreign Language files the State of Missouri government requirement. Humanities, Arts, and Social Sciences Select 3 hours. antities, Arts, Social Sciences Elective: Any history, art, c, theater, English and technical communication, sophy, political science, psychology, economics, ology, or foreign language. The electives applied to the degree. The p 2 Major Requirements 25 10 1 100 or ECON 1200 or ECON	ductory Psychology or 6 PSYCH 1101 or properties of Microeconomics or principles of Microecono

	Computer Eng	ineering	Group	2 Major R	Requirements	
	Eastern Illinois University		Semester		Missouri S&T	
CMN 1310G	Intro to Speech Communication	3	SI	PMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab	4	C	HEM 1310, 1319	General Chemistry I and Lab	5
CIT 1813	Intro to Programming (C++)	3	C	S 1971,1981*	Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
PHY 2390 or CHM 2440	Statics or Organic Chemistry I	3	-	IV ENG 2200 or HEM 2210	Engineering Mechanics-Statics (3) or Organic Chemistry I (3) Satisfies a required engineering/science elective.	3
PHY 3270	Intro to Circuit Analysis	3	E	E 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	4
MAT 2550	Intro to Linear Algebra	3	М	ATH 3108	Linear Algebra Will satisfy a required math elective.	3
	From the 6 hours H 6 hours Be *At least one course must be selected from HIS	e options listed in e lumanities and Fine havioral and Social STORY 1200, 1300, Huma	ach group below Arts from at least Sciences from at 1310, or POL So nities and Fine	Arts	nclude es and ciplines.	
		Select 6 hours fror	n at least two sp	pecific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfes the State of Missouri government requirement.	6	Hi Al M	ISTORY 1300* or ISTORY 1310* or RT 1180 or USIC 1150 or USIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
		Behavior Select 6 hours fror	ral and Social S			
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	H Pi Pi P: Ei	ISTORY 2110 or HILOS 1105 or HILOS 1115 or OL SCI 1200* or SYCCH 1101 or CON 1100 or CON 1200 or oreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			Arts, and Socia	al Sciences		
ENG 1002G	Composition and Literature	3	Select 3 hours.	NGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	3 37 33 Total Hours 70		lectives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	3 39 27 66

	Electrical Engin	eering	Group	o 2 Major Rec	quirements	
	Eastern Illinois University		Semester		Missouri S&T	
CMN 1310G	Intro to Speech Communication	3		SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CIT 1813	Intro to Programming (C++)	3		CS 1971,1981*	Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
PHY 2390 or S&T MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR CHM 2440	Statics (3) and Engineering Mechanics-Dynamics (2) at Missouri S&T Both courses above combined or any one of the following courses will satisfy a regineering science elective. OR Organic Chemistry I (3)	equired		CIV ENG 2200 and MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR CHEM 2210	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Organic Chemistry I (3)	3
PHY 3270	Intro to Circuit Analysis	3		ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) *A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100.	4
MAT 2550	Intro to Linear Algebra	3		MATH 3108	Linear Algebra	3
	6 hours Huma 6 hours Behavio *At least one course must be selected from HISTOR	nities and Fine oral and Social XY 1200, 1300, Huma	Arts from at le Sciences from 1310, or POL Inities and F	•	nd es.	
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation **Satisfies the State of Missouri government requirement.	6
	Cala		al and Socia			
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	ct 6 nours froi	ii at least tWo	specific disciplines. HISTORY 2110 or PHILLOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			Arts, and Solect 3 hour	ocial Sciences		
ENG 1002G	Composition and Literature	3		ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives	6		Electives	Maximum Free Electives	6
	Group 2 Major Requirements	37			Group 2 Major Requirements	42
	Group 1 Core Requirements Tota	33 al Hours 70			Group 1 Core Requirements Total Hour *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	27 s* 69

	Engineering Ma	nagen	nent (Group 2 Major F	Requirements	
	Eastern Illinois University		Sen	nester	Missouri S&T	
CMN 1310G	Intro to Speech Communication		3	SPMS 1185	Principles of Speech	3
CHM 1310G.1315G	General Chemistry I and Lab		4	CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CHW 1310G, 1315G	Intro to Programming (C++)		3	CHEM 1310, 1319 CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
PHY 3270			3	ELEC ENG 2800	Electrical Circuits	3
	Intro to Circuit Analysis		3			3
PHY 2390	Statics	A-4 C		CIV ENG 2200 ces General Education Requir	Engineering Mechanics-Statics	3
	From the 6 hours H	e options liste lumanities and havioral and S	d in each g I Fine Arts fi Social Scien	roup below, select 15 hours to incl rom at least two specific disciplines ces from at least two specific discip	lude and lines.	
				and Fine Arts	J	
				east two specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.		6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
				d Social Sciences		
	Select 6 hou	ırs from at lea	ast two spe	cific disciplines to include PSYCH	1 1101.	
PSY 1879G	Introductory Psychology		3	PSYCH 1101	General Psychology Required	3
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
		Human		and Social Sciences t 3 hours.		
ENG 1002G	Composition and Literature		3	ENGLISH 1160	Writing and Research	3
	No free electives applied to the degree.		0	Electives	Maximum Free Electives	0
	Group 2 Major Requirements		34	LICCUVES	Group 2 Major Requirements	32
	Group 1 Core Requirements		33			27
	Group 1 Core Requirements	Total Hours	67		Group 1 Core Requirements Total Hours *S&T advisor permission is required to transfer more than 61 credits toward the S&T Engineering Management degree.	

	Environmental E	ngine	ering G	roup 2 Major	Requirements	
	Eastern Illinois University		Semest	<u>er</u>	Missouri S&T	
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 Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab		4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 1410, 1415	General Chemistry II and Lab		4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BIO 1500	General Biology I		4	BIO SCI 1213*, 1219	Principles of Biology* *BIO SCI 1213 will be substituted for 1113.	3
PHY 2390	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
	From the	e options liste dumanities and chavioral and S STORY 1200, 1	d in each group Fine Arts from a ocial Sciences fr 300, 1310, or Po	•	ude and Jines.	
			umanities and	Fine Arts wo specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock 'Satisfies the State of Missouri government requirement.	ociect o nour.	6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Beha	vioral and Soc		• · · · · · · · · · · · · · · · · · · ·	
			Select 3 ho	ours.		
PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.		0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	Total Hours	27 33 60		Group 2 Major Requirements Group 1 Core Requirements Total Hours* "S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	26 27 53

	Geological Engi	neering G	roup 2 Major R	Requirements	
	Eastern Illinois University		ester	Missouri S&T	
CHM 1310G,1315G	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CIT 1813	Intro to Programming (C++)	3	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
PHY 2390	Statics	-	CIV ENG 2200	Engineering Mechanics-Statics	3
	From the op 6 hours Huma	tions listed in each gr anities and Fine Arts fr ioral and Social Scienc RY 1200, 1300, 1310,		clude s and iplines.	
	Sele		and Fine Arts ast two specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			Social Sciences		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.	6	ast two specific disciplines. HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			and Social Sciences 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	, art, 3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Tot	25 33 tal Hours 58		Group 2 Major Requirements Group 1 Core Requirements Total Hours	26 27 * 53
				*S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	

	Mechanical Engi	neerir	ng Grou	ıp 2 Major F	Requirements	
	Eastern Illinois University		Semeste	<u>r</u>	Missouri S&T	
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 Applies to degree as 6en Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CIT 1813	Intro to Programming (C++)	3		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
PHY 3270 PHY 2390	Intro to Circuit Analysis Statics	3		EE 2800 CIV ENG 2200	Electrical Circuits	3
MAT 2550	Intro to Linear Algebra	3		MATH 3108	Engineering Mechanics-Statics Linear Algebra I	3
WA1 2330	<u> </u>			eneral Education Requi	Satisfies the Advanced Math/Statistics elective requirement.	3
	6 hours Huma	nities and Fi oral and Soc RY 1200, 130	ne Arts from at I ial Sciences fror	•	s and plines.	
	Sele			o specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6		HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Sele		ioral and Soci rom at least tw	al Sciences o specific disciplines.		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanitie	es, Arts, and S Select 3 hou	ocial Sciences rs.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	art, 3		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	34			Group 2 Major Requirements	35
	Group 1 Core Requirements Tota	33 al Hours 67			Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	27 62

	Metallurgical Engi	ineeri	ng G	roup 2 Major	Requirements	
	Eastern Illinois University		Semes		Missouri S&T	
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 Applies to degree as Gen Ed Communication requirement.	3
PHY 2390 CHM 1310G,1315G	Statics General Chemistry I and Lab		3 4	CIV ENG 2200 CHEM 1310, 1319	Engineering Mechanics-Statics General Chemistry I and Lab	3 5
CHM 1410, 1415	General Chemistry II and Lab		4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHM 2440, 2445 or PHY 3270	Organic Chemistry I and Lab or Intro to Circuit Analysis		4	CHEM 2210 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
	From the opt 6 hours Huma	tions listed anities and F ioral and So RY 1200, 13	in each grou ine Arts from cial Sciences 600, 1310, or	•	clude s and plines.	
	Sele		manities an from at least	two specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.		6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Sole			ocial Sciences two specific disciplines.		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		from at least	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humaniti	es, Arts, and Select 3 I	d Social Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.		3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Maximum Free Electives		3		Maximum Free Electives	3
	Group 2 Major Requirements Group 1 Core Requirements Tot		36 33 59		Group 2 Major Requirements Group 1 Core Requirements Total Hours* *\$&T advisor permission is required to transfer more than 68 credits toward the \$&T Metallurgical Engineering degree.	35 27 62

	Mining Engir	neerin	g Group	o 2 Major Req	uirements					
	Eastern Illinois University		Semest	ter	Missouri S&T					
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 Applies to degree as Gen Ed Communication requirement.	3				
CHM 1310G,1315G	General Chemistry I and Lab		4	CHEM 1310, 1319	General Chemistry I and Lab	5				
PHY 2390	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3				
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. *At least one course must be selected from HISTORY 1200, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement. Humanities and Fine Arts									
		Select 6 hour	s from at least	two specific disciplines.						
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.		6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation Satisfies the State of Missouri government requirement.	6				
		Beh	avioral and So	cial Sciences						
		Select 6 hour	s from at least	two specific disciplines.						
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6				
	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	Total Hours	33 55		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.	27 50				

	Nuclear Engin	eering Gr	oup 2 Major Re	quirements	
	Eastern Illinois University	Se	mester	Missouri S&T	
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 Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G CIT 1813	General Chemistry I and Lab Intro to Programming (C++)	4	CHEM 1310, 1319 CS 1971, 1981	General Chemistry I and Lab Intro to Programming Method and Lab (C++)	5 3
MAT 2550 PHY 2390 PHY 3270	Intro to Linear Algebra Statics	3 3 3	MATH 3108 CIV ENG 2200 ELEC ENG 2800	Linear Algebra Engineering Mechanics-Statics Electrical Circuits	3 3 3
PHY 3270	Intro to Circuit Analysis		ences General Education Regui		3
	From the o 6 hours Hun	ptions listed in each nanities and Fine Arts vioral and Social Scie DRY 1200, 1300, 1310	group below, select 15 hours to in from at least two specific discipline nces from at least two specific disci 0, or POL SCI 1200 to satisfy the	clude s and plines.	
	Se		es and Fine Arts least two specific disciplines.		
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US to 1877* or History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.	6	HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or MUSIC 1150	American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			nd Social Sciences		
		lect 6 hours from at	least two specific disciplines.		
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
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
			s, and Social Sciences ect 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histo music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	ry, art, 3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Maximum Free Electives	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	34 33 otal Hours 67		Group 2 Major Requirements Group 1 Core Requirements Total Hou *S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	35 27 rs* 62

	Petroleum Engi	neeri	ing	Group 2 Ma	ijor Red	quirements	
	Eastern Illinois University			Semester		Missouri S&T	
ENG 1002G or CMN 1310G	Composition and Literature or Intro to Speech Communication		3	ENGLISH 11 SPMS 1185	160 or	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHM 1310G,1315G	General Chemistry I and Lab		4	CHEM 1310	, 1319	General Chemistry I and Lab	5
PHY 2390	Statics		3	CIV ENG 22	00	Engineering Mechanics-Statics	3
	From the o 6 hours Hun 6 hours Beha *At least one course must be selected from HIST0	ptions listenanities and solutional and solutions. ORY 1200,	d in ea Fine Social 3 1300, Huma	nities and Fine Arts	5 hours to include fic disciplines and specific discipline satisfy the State	e d es.	
	History of US to 1877* or	elect 6 noul	rs tron	n at least two specific disc	•	American History to 1877* or	
HIS 2010* or HIS 2020* or ART 2330G or MUS 2555G or MUS 2557G	History of US Since 1877* or Art Appreciation or The Enjoyment of Music or The Evolution of Jazz and Rock *Satisfies the State of Missouri government requirement.		6	HISTORY 13 HISTORY 13 ART 1180 or MUSIC 1150 MUSIC 1150	310* or) or	American History Since 1877* or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation **Satisfies the State of Missouri government requirement.**	6
	Se			al and Social Sciences at least two specific disc	ciplines.		
GEO 1200G or PHI 1000G or PHI 1900G or PLS 1153G* or PSY 1879G or ECN 2801G or ECN 2802G or Foreign Language	World Regional Geography or GodValues: Intro to Philosophical Questions or Logical and Critical Reasoning or American Government and Constitution* or Introductory Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6	HISTORY 2: PHILOS 110 PHILOS 111 POL SCI 12: PSYCH 110: ECON 1100 ECON 1200 Foreign Lanç	5 or 5 or 00* or 1 or or	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	· · · · · · · · · · · · · · · · · · ·	Human		Arts, and Social Science Select 3 hours.	es		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histo music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	ry, art,	3	HASS Electi	ve	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	otal Hours	0 25 33 58			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *\$&T advisor permission is required to transfer more than 69 credits toward the \$&T Petroleum Engineering degree.	0 26 27 53