Southeastern Illinois College — 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.

	Southeastern Illinois College	9	Semester .		Missouri S&T		
MATH 162	Calculus & Analytic Geometry I	5	MATH 12	14 Calculus I	Grade of C or better is required.		4
MATH 221	Calculus & Analytic Geometry II	5	MATH 12	15 Calculus II	Grade of C or better is required.		4
MATH 222	Calculus & Analytic Geometry III	5	MATH 22	22 Calculus II	Grade of C or better is required.		4
MATH 225	Differential Equations	3	MATH 33	04 Elementary	/ Differential Equations		3
PHYS 221	General Physics I	5	PHYSICS	1135 Engineerin	g Physics I Grade of C or better is required.		4
PHYS 222	General Physics II	5	PHYSICS	2135 Engineerin	g Physics II Grade of C or better is required.		4
ENG 121	Rhetoric and Composition I	3	ENGLISH	1120 Exposition	and Argumentation		3
		Total Hours 31				Total Hours	26

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

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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 Eng	jineering Gı	oup 2 Major R	Requirements	
	Southeastern Illinois College	<u>Sem</u>	<u>ester</u>	Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHYS 241	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	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
	From the 6 hours Hu	options listed in each grumanities and Fine Arts fron avioral and Social Science	ces General Education Requipment below, select 15 hours to in at least two specific discipline es from at least two specific discor POL SCI 1200 to satisfy the	clude s and iplines.	
			and Fine Arts		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfas the State of Missouri government requirement.	6	ast two specific disciplines. ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfes the State of Missouri government requirement.	6
			Social Sciences		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to 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 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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 hist music, theater, English and technical communicatior philosophy, political science, psychology, economics etymology, or foreign language.	1, 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. Group 2 Major Requirements Group 1 Core Requirements	0 29 31 Total Hours 60		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hou *S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	0 29 26 rs* 55

	Architectural En	ngineerin	ıg Gro	up 2 Major F	Requirements	
	Southeastern Illinois College		Semester		Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHYS 241	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 242	Dyanamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
	From the 6 hours H	e options listed in e lumanities and Fine havioral and Social STORY 1200, 1300,	ach group bel Arts from at le Sciences from	•	ude and lines.	
				specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Soloat 6 hour		al and Socia	I Sciences plines to include HISTOR	V 1200	
HIST 122*	History of Western Civilization from 1648* *Satisfies the State of Missouri Government requirement.	s iroiii at least two	specific disci	HISTORY 1200*	Modern Western Civilization* 'Satisfies the State of Missouri Government requirement.	3
PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to 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	26 31 Total Hours 57			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 Architectural Engineering degree.	25 26 51

	Biomedical Eng Group 2	_	_	-Biomanufa equirements		
	Southeastern Illinois College		Semester	_	Missouri S&T	
COM 121	Principles of Speaking	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 241	Organic Chemistry I To receive credit for S&T CHEM 2219 Organic Chemistry I Lab, student must either complete SEIC CHEM 242 or take S&T CHEM 2219 on the S&T campus.	5		CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 242 or BIOL 121	Organic Chemistry II* (5) or Introductory Biology (4) *The equivalent of S&T CHEM 2229 Organic Chemistry II Lab is not available at SEIC and can be taken on the S&T campus.	4		CHEM 2220, 2229 or BIO SCI 1113, 1219	Organic Chemistry II and Lab or General Biology and Lab Applies to degree as Track Elective.	4
BIOL 261	Human Anatomy and Physiology I	4		BIO SCI 3333, 3339*	Anatomy and Physiology I (3) and Lab* (1) *BIO SCI 3339 is not a degree requirement; transfers as general elective credit.	3
	From the options lis 6 hours Humanities at 3 ho *At least one course must be selected from HISTORY 1200	ted in nd Fine urs Bel , 1300 Huma	each group be Arts from at lenavioral and So , 1310, or POI anities and F	SCI 1200 to satisfy the Stine Arts	rde and	
ENO 004		urs fro	m at least two	specific disciplines.	Associated Liberatures 4000 to 4005	
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation 'Satisfies the State of Missouri government requirement.	6		ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Ве	havio	ral and Socia			
HIST 121 or HIST 122* or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	Select 3 hou	HISTORY 1100 or HISTORY 1200* or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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	35 31 66			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.	31 26 57

			gineering-Biomate		
	Gro	oup 2 Ma	ajor Requirements		
	Southeastern Illinois College		Semester	Missouri S&T	
COM 121	Principles of Speaking	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 241 and CHEM 242	Organic Chemistry I (5) and Organic Chemistry II (5) Both courses must be taken to receive full transfer credit as indicated.	10	CHEM 2210, 2219* and CHEM 2220	Organic Chemistry I and Lab* and Organic Chemistry II (no lab) *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	8
BIOL 121	Introductory Biology	4	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BIOL 261	Human Anatomy and Physiology I	4	BIO SCI 3333, 3339*	Anatomy and Physiology I (3) and Lab* (1) *BIO SCI 3339 is not a degree requirement; transfers as general elective credit.	3
PHYS 241	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
		manities and Fine 3 hours Beh	each group below, select 9 hours to inclue Arts from at least two specific disciplines havioral and Social Sciences. , 1310, or POL SCI 1200 to satisfy the SI	and	
			anities and Fine Arts		
	S	elect 6 hours fro	m at least two specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation 'Satisfies the State of Missouri government requirement.	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Satisfies the State of Missouri government requirement.	Behavio	ral and Social Sciences	Satisfies the State of missouri government requirement.	
			Select 3 hours.		
HIST 121 or HIST 122* or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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	0 43 31 otal Hours 74		Maximum Free Electives 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 Biomedical Engineering degree.	0 38 26 64

	Ceramic Eng	ineering G	roup 2 Major Re	equirements	
	Southeastern Illinois College	S	emester	Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Apples to degree as Gen Ed Communication requirement.	3
PHYS 241	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 241	Organic Chemistry I	5	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
	Humanities	. Arts. and Social Sci	iences General Education Regu		
	From th 6 hours I	e options listed in each Humanities and Fine Art ehavioral and Social Sci	n group below, select 15 hours to in s from at least two specific discipline ences from at least two specific disc	iclude is and iplines.	
	At least one course must be selected from the		ies and Fine Arts	oute of missouri government requirement.	
			t least two specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1865 to Present or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfes the State of Missouri government requirement.	6
	Canonica and Grand of miscocal government requirement.	Behavioral a	and Social Sciences	Salono the Sale of Missouri government requirement.	
		Select 6 hours from a	t least two specific disciplines.		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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
			ts, and Social Sciences ect 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hi music, theater, English and technical communication philosophy, political science, psychology, economic etymology, or foreign language.	story, art, on,	ect 3 nours. 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. Group 2 Major Requirements Group 1 Core Requirements	0 36 31 Total Hours 67		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hou *S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	0 32 26 rs* 58

	Chemical Engineeri	ng - Bi	ochen			
		up 2 Ma		equirements		
	Southeastern Illinois College		<u>Semester</u>		Missouri S&T	
COM 121	Principles of Speaking	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 241	Organic Chemistry I	5		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
CHEM 242 or BIOL 242	Organic Chemistry II (5) or Microbiology (4) After completing CHEM 241, take both CHEM 242 and BIOL 242 to satisfy the science elective requirement.	9 9-hour		CHEM 2220* or BIO SCI 3313, 3319	Organic Chemistry II* (3) or Microbiology and Lab (5) Take both courses. Will satisfy the 9-hour science elective requirement when combined with CHEM 2219 (see note above). 'The combination of SEIC CHEM 241 and 242 is equivalent to the combination of S&T CHEM 2210, 2219, and 2220.	8
	From the op 6 hours Huma	itions listed in e anities and Fine rioral and Social	each group be Arts from at le Sciences from	eneral Education Requi elow, select 12 hours to inc east two specific disciplines n at least two specific discip L SCI 1200 to satisfy the S	clude s and olines.	
			nities and F			
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation "Satisfies the State of Missouri government requirement.	6	m at least two	o specific disciplines. ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
	Sala		ral and Socia	al Sciences o specific disciplines.		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	m at reast two	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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. Group 2 Major Requirements Group 1 Core Requirements Tol	0 39 31 tal Hours 70			Maximum Free Electives 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.	0 35 26 61

	Civil Engine	ering G	roup 2	Major Req	uirements	
	Southeastern Illinois College		Semester		Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 241	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 242	Dyanamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
	From the 6 hours Hu	options listed in e umanities and Fine navioral and Social TORY 1200, 1300	each group be Arts from at le Sciences fron		nclude es and ciplines.	
	\$	Select 6 hours fro	m at least two	specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			ral and Socia			
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		o specific disciplines. HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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 hist music, theater, English and technical communication philosophy, political science, psychology, economics etymology, or foreign language.	l, 3	25/000 0 11001	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	29 31 Total Hours 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 Civil Engineering degree.	28 26 54

	Computer En	gineering (Group 2 Major R	equirements	
	Southeastern Illinois College	S	<u>emester</u>	Missouri S&T	
COM 121	Principles of Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 241 or PHYS 242	Statics or Dynamics	3	CIV ENG 2200 or MECH ENG 2350	Engineering Mechanics-Statics (3) or Engineering Mechanics-Dynamics (2) Satisfies a required engineering/science elective.	3
			iences General Education Requ		
	6 hours	Humanities and Fine Art ehavioral and Social Sci	n group below, select 15 hours to in s from at least two specific discipline lences from at least two specific disc 10, or POL SCI 1200 to satisfy the	s and iplines.	
			ies and Fine Arts		
		Select 6 hours from a	t least two specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1221 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			and Social Sciences		
		Select 6 hours from a	t least two specific disciplines.		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Microeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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
			ts, and Social Sciences		
ENG 122	Rhetoric and Composition II	Sel 3	lect 3 hours. ENGLISH 1160	Writing and Research	3
	· · · · · · · · · · · · · · · · · · ·			Writing and Research	
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	3 29 31 Total Hours 60	Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hot. *S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.	3 29 26 urs* 55

	Electrical Eng	jineering Gro	up 2 Major R	equirements	
	Southeastern Illinois College	Semes	<u>ster</u>	Missouri S&T	
COM 121	Principles of Speaking	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 241 and PHYS 242	Statics and Dynamics	6	CIV ENG 2200 and MECH ENG 2350	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) Satisfies a required engineering/science elective.	5
	From the 6 hours	e options listed in each grou Humanities and Fine Arts from ehavioral and Social Sciences	s General Education Requ p below, select 15 hours to in at least two specific discipline from at least two specific disc POL SCI 1200 to satisfy the	clude s and iplines.	
		Humanities an Select 6 hours from at least			
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behavioral and S Select 6 hours from at least			
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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, an Select 3			
ENG 122	Rhetoric and Composition II	3	ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	6 35 31 Total Hours 66	Electives	Maximum Free Electives Group 2 Major Requirements 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.	6 34 26 s* 60

	Engineering Ma	nage <u>m</u>	ent <u>Gr</u>	oup 2 Ma <u>jor</u>	Requirements	
	Southeastern Illinois College		Semes		Missouri S&T	
COM 121	Principles of Speaking		3	SPMS 1185	Principles of Speech	3
CHEM 121 PHYS 241 PHYS 242	General Chemistry I Statics Dyanamics		5 3 3	CHEM 1310, 1319 CIV ENG 2200 MECH ENG 2350	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab Engineering Mechanics-Statics Engineering Mechanics-Dynamics	5 3 2
PH15 242	Humanities From th 6 hours I	e options listed dumanities and ehavioral and So STORY 1200, 1	cial Sciences in each group ine Arts from ocial Sciences 300, 1310, or l	s General Education Requ p below, select 15 hours to in at least two specific discipline from at least two specific disc POL SCI 1200 to satisfy the	irements Iclude Is and Iplines.	2
			umanities an from at least	two specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfes the State of Missouri government requirement.		6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	0.1.101			ocial Sciences	2011 4404	
PSYC 121	Intro to Psychology	urs from at leas	st two specific	disciplines to include PSYC PSYCH 1101	CH 1101. General Psychology Required	3
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
		Humanit	ies, Arts, and Select 3 h	d Social Sciences		
ENG 122	Rhetoric and Composition II		3	ENGLISH 1160	Writing and Research	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements		0 29 31 60	Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 61 credits toward the S&T	0 28 26 61

	Environmental	Engine	eri	ng Gro	up 2 Major	Requirements	
	Southeastern Illinois College			Semester		Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or of Speaking	Principles	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I		5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis		5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BIOL 121	Intro to Biology		4		BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
PHYS 241	Statics		3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 242	Dyanamics		3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
	6 hour	s Humanities and Behavioral and S HISTORY 1200, 1	Fine locial 1300,	Arts from at least Sciences from 1310, or POL	•	and ines.	
				nities and Fir	ne Arts specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfes the State of Missouri government requirement.		6		ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
				ral and Social			
		ours from at leas	st two	specific discip	olines to include HISTOR		
HIST 122*	History of Western Civilization from 1648* *Satisfies the State of Missouri Government requirement.		3		HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to 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	35 31 66			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.	31 26 57

	Geological Engi	neering	Group 2 l	Major Re	quirements	
011514 404	Southeastern Illinois College		Semester	1010 1010	Missouri S&T	
CHEM 121 PHYS 241	General Chemistry I Statics	5 3	CHEM 1	1310, 1319	General Chemistry I and Lab	5 3
PHYS 241 PHYS 242	Dyanamics	3		G 2200 ENG 2350	Engineering Mechanics-Statics Engineering Mechanics-Dynamics	2
1110 272	Humanities, A From the o 6 hours Hun	ptions listed in en nanities and Fine vioral and Social DRY 1200, 1300,	Sciences General Ec ach group below, sele Arts from at least two s Sciences from at least t 1310, or POL SCI 1200	ducation Requirent ect 15 hours to include specific disciplines and two specific discipline	nents le nd es.	-
	Sa		nities and Fine Arts n at least two specific	disciplines		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLIS ENGLIS ENGLIS HISTOR	SH 1221 or SH 1222 or SH 1231 or RY 1300* or RY 1310* or 80 or	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation **satisfies the State of Missouri government requirement.	6
	_		al and Social Scienc			
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTOR PHILOS PHILOS POL SC PSYCH ECON 1 ECON 1	RY 1100 or RY 1200* or 5 1115 or 5 1115 or 11200* or 1101 or 1200 or 1200 or Language	Early Western Civilization or Modern Western Civilization* 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 Social Science 3 hours.	ences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histor music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.		HASS E	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. Group 2 Major Requirements Group 1 Core Requirements	0 26 31 otal Hours 57			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	0 25 26 51

	Mechanical Eng	ineerir	ng Grou	ıp 2 Major R	equirements	
	Southeastern Illinois College		Semester		Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Apples to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHYS 241	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
	From the of 6 hours Hui	options listed in manities and Fil avioral and Soc ORY 1200, 130	n each group be ne Arts from at le ial Sciences fron	•	lude and lines.	
	Si			specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6		ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			ioral and Socia			
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		o specific disciplines. HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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 Se Select 3 hou	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histo music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.			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. Group 2 Major Requirements Group 1 Core Requirements	0 26 3° otal Hours 57	3 1		Maximum Free Electives 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 Mechanical Engineering degree.	0 26 26 52

	Metallurgical Er	ngineerin	g Gro	up 2 Major	Requirements	
	Southeastern Illinois College		Semester		Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
PHYS 241	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 121	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry and Qualitative Analysis	5		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 241	Organic Chemistry I	5		CHEM 2210	Organic Chemistry I Not specifically required for the degree but will satisfy out-of-department technical elective requirement	3
	From the 6 hours	ne options listed in e Humanities and Fine Behavioral and Social ISTORY 1200, 1300	each group be Arts from at le Sciences from		clude s and iplines.	
				specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfes the State of Missouri government requirement.	6	m at least we	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Satisfies the State of Missouri government requirement.	Behavio	ral and Socia	I Sciences	Satisfies the State of Missouri government requirement.	
		Select 6 hours fro	m at least two	specific disciplines.		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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 h music, theater, English and technical communicati philosophy, political science, psychology, economi etymology, or foreign language.	ion,		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	39 31 Total 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 Metallurgical Engineering degree.	35 26 61

	Mining Engi	neering C	Group 2 Majo	r Requirements	
	Southeastern Illinois College		<u>Semester</u>	Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3	ENGLISH 11 SPMS 1185	60 or Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310,		5
PHYS 241	Statics	3	CIV ENG 220	00 Engineering Mechanics-Statics	3
PHYS 242	Dyanamics	3	MECH ENG	2350 Engineering Mechanics-Dynamics	2
	From th 6 hours I 6 hours B	e options listed in e Humanities and Fine ehavioral and Social	Sciences General Educate ach group below, select 12 Arts from at least two specific Sciences from at least two s 1310, or POL SCI 1200 to select the selection of the selection	hours to include c disciplines and	
			nities and Fine Arts n at least two specific disci	inlings	
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 12 ENGLISH 12 ENGLISH 12 HISTORY 13 HISTORY 13 ART 1180 or MUSIC 1150	21 or American Literature: 1600 to 1865 or 22 or American Literature: 1865 to Present or 31 or World Literature I: Beginnings to the Renaissance 00* or American History to 1877* or	e or 6
		Behavior	al and Social Sciences		
		Select 6 hours from	n at least two specific disc	iplines.	
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 11 HISTORY 12 PHILOS 1102 PHILOS 1112 POL SCI 120 PSYCH 1101 ECON 1100 ECON 1200 Foreign Lang	00° or Modern Western Civilization* or 5 or Self and World: Intro to Philosophy or 5 or Logic and Reasoning: An Introduction or 00° or American Government*or or General Psychology or or Principles of Microeconomics or or Principles of Macroeconomics or	6
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	26 31 Total Hours 57		Group 2 Major Requirements Group 1 Core Requirements *S&T advisor permission is required to transfer more than 68 credits to Mining Engineering degree.	25 26 Total Hours* 51 ward the S&T

	Nuclear Engin	eerin	a Group	2 Maior Rec	uirements	
		30 1111	•			
	Southeastern Illinois College		Semeste	<u>r</u>	Missouri S&T Writing and Research or	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking		3	ENGLISH 1160 or SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I		5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 241	Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
	From the o 6 hours Hun	ptions liste nanities and vioral and S	d in each group b I Fine Arts from at l Social Sciences fro	eneral Education Require elow, select 15 hours to inclu- least two specific disciplines a m at least two specific discipl L SCI 1200 to satisfy the St	ude and ines.	
	90		Humanities and F			
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242° or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	eect 6 nour	s from at least tw	o specific disciplines. ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	S.		avioral and Soci	al Sciences o specific disciplines.		
ECON 122 or ECON 121	Principles of Microeconomics or Principles of Macroeconomics	nect o noui	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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
		Human	ities, Arts, and S Select 3 hou			
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	otal Hours	26 31 57		Group 2 Major Requirements Group 1 Core Requirements Total Hours*	26 26 52
					*S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	

	Petroleum Engi	neering	Group 2 Major R	equirements	
	Southeastern Illinois College	9	<u>Semester</u>	Missouri S&T	
ENG 122 or COM 121	Rhetoric and Composition II or Principles of Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 241	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 242	Dyanamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
	From the control of t	ptions listed in eac manities and Fine Ar avioral and Social So	ciences General Education Requi th group below, select 15 hours to in- ts from at least two specific disciplines ciences from at least two specific disci 810, or POL SCI 1200 to satisfy the	clude s and plines.	
		Humani	ties and Fine Arts		
		elect 6 hours from	at least two specific disciplines.		
ENG 261 or ENG 262 or ENG 245 or HIST 241* or HIST 242* or ART 121 or MUS 121	American Literature I or American Literature II or World Literature or American History I* or American History II* or Art Appreciation or Music Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150	American Literature: 1600 to 1865 or American Literature: 1865 to Present or Word Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	Cationes the Otate of Missouri government requirement.	Behavioral	and Social Sciences	Causines the state of missouri government requirement.	
	Se	elect 6 hours from	at least two specific disciplines.		
HIST 121 or HIST 122* or PHIL 121 or PHIL 122 or GOVT 121* or PSYC 121 or ECON 122 or ECON 121 or Foreign Language	History of Western Civilization to 1648 or History of Western Civilization from 1648* or Intro to Philosophy or Fundamentals of Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* 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
			rts, and Social Sciences elect 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements T	29 31 otal Hours 60		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.	28 26 * 54