Three Rivers 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.

	Three Rivers College	<u>Semes</u>	<u>ter</u>	Missouri S&T		
MATH 171	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.		4
MATH 271	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II Grade of C or better is required.		4
MATH 272	Analytic Geometry and Calculus III	5	MATH 2222	Calculus III Grade of C or better is required.		4
PHYS 211	General Physics I	5	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 212	General Physics II	5	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
ENGL 111	College Writing	3	ENGLISH 1120	Exposition and Argumentation		3
l		Total Hours 28			Total Hours	23

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

 $\textbf{Engineering Major Requirements} \ \text{are detailed on the following pages}.$

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 Engi	neering (Group 2 Major R	equirements	
	Three Rivers College	Se	emester_	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHIL 233	Ethics or other engineering, business, bio, social ethics approved by advisor	3	PHILOS 1130	How Should I Live? An Introduction to Ethics or other engineering, business, bio, social ethics approved by advisor	3
	Humanities, Art From the op 6 hours Huma 6 hours Behav	ions listed in each inities and Fine Arts oral and Social Scie	ences General Education Requi group below, select 15 hours to inc s from at least two specific disciplines ences from at least two specific disci	clude s and plines.	
	*At least one course must be selected from HISTO		es and Fine Arts	State of Missouri government requirement.	
	Sele		t least two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "Satisfies the State of Missouri government requirement.	6 Behavioral a	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
	Sele	ect 6 hours from a	t least two specific disciplines.		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	HISTORY 1100 or HISTORY 1200* or PHIL 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 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 history 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 Tot	0 25 28 al Hours 53		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* *\$8T advisor permission is required to transfer more than 68 credits toward the \$8T Aerospace Engineering degree.	0 26 23 49

	Architectural E	ngineering	Group 2 Major	Requirements	
	Three Rivers College	Sei	<u>mester</u>	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CIVL 116 and 216	Surveying I and II	6	CIV ENG 2401	Fundamentals of Surveying	3
	From to 6 hours	he options listed in each of Humanities and Fine Arts Behavioral and Social Scientist Took 1300, 1310 Humanitie	s and Fine Arts	clude s and plines.	
		Select 6 hours from at	least two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1800 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement.	6
			nd Social Sciences		
		urs from at least two spe	cific disciplines to include HISTO		
HIST 122*	World Civilization since the Renaissance* *Satisfies the State of Missouri Government requirement.	3	HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	Intro to Philosophy or National and State 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	PHIL 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy 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	25 28 Total Hours 53		Group 2 Major Requirements Group 1 Core Requirements Total Hour *S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	23 23 s* 46

			_	-Biomanufa equirements		
	Three Rivers College		Semester		Missouri S&T	
SCOM 110	Public Speaking	3		SP&MS 1185	Principles of Speech	3
CHEM 121	General Chemistry I	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CHEM 122	General Chemistry II	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
BIOL 100 or BIOL 191	Survey of Biological Principles (3) or Biology I (4)	3		BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab or Principles of Biology* Applies to degree as Track Elective. *BIO SCI 1213 will be substituted for BIO SCI 1113.	4
BIOL 231	Anatomy and Physiology	4		BIO SCI 3333, 3359	Anatomy and Physiology I and Lab	4
				eneral Education Require		
		Humanities and Fine 3 hours Beh IISTORY 1200, 1300,	Arts from at le avioral and So	•	and	
				specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
			al and Socia			
HIST 121 or HIST 122* or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or National and State 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		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	27 28 Total Hours 55			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.	28 23

				ing-Biomate equirements	rials	
	Three Rivers College		Semester		Missouri S&T	
SCOM 110	Public Speaking	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry II	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
BIOL 100 or BIOL 191	Survey of Biological Principles (3) or Biology I (4)	3		BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab or Principles of Biology* Applies to degree as Track Elective. *BIO SCI 1213 will be substituted for BIO SCI 1113.	4
BIOL 231	Anatomy and Physiology	4		BIO SCI 3333, 3359	Human Anatomy and Physiology I and Lab	4
	From	the options listed in Humanities and Fine 3 hours Beh	each group be Arts from at le avioral and So	eneral Education Require elow, select 9 hours to inclu- east two specific disciplines a ocial Sciences. SCI 1200 to satisfy the St	de and	
		Huma	nities and F	ine Arts		
		Select 6 hours from	m at least two	specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change **Satisfies the State of Missouri government requirement.	6
			ral and Socia Select 3 hour			
HIST 121 or HIST 122* or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or National and State 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		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	27			Group 2 Major Requirements	28
	Group 1 Core Requirements	28 Total Hours 55			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.	23 51

	Ceramic Engir	eering Gro	up 2 Major Re	equirements	
	Three Rivers College	Seme	ester	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry II	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
	From the c 6 hours Hur	ptions listed in each gro manities and Fine Arts fro avioral and Social Science	es General Education Requi pup below, select 15 hours to in m at least two specific discipline es from at least two specific disci or POL SCI 1200 to satisfy the	iclude is and iplines.	
			and Fine Arts		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature since 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6	st two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: 865 to Present or World Literature I: 8675 to Present or World Literature I: 8675 to Present or American History to 1877* or American History to 1877* or Art Appreciation or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
	S	Behavioral and	Social Sciences ast two specific disciplines.		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	HISTORY 1100 or HISTORY 1200* or PHIL 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 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, a Select	ind Social Sciences 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	26 28 otal Hours 54		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 Ceramic Engineering degree.	26 23 * 49

			Engineering of		
			or Requireme	ineering Emphasis	
	Three Rivers College		Semester	Missouri S&T	
SCOM 110		3	SP&MS 1185	Principles of Speech	3
CHEM 121	Public Speaking General Chemistry I	<u>З</u>	CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement.	5
CHEM 122	General Chemistry II	4	CHEM 1320, 1510	Concret Chemistry II (2) and Qualitative Analysis* (2)	3
BIOL 253	Microbiology	4	BIO SCI 3313	Microbiology Will satisfy 3 of 9 required hours of science electives.	3
	From th 6 hours 6 hours E	ne options listed in each Humanities and Fine A Behavioral and Social So ISTORY 1200, 1300, 1	ciences General Education the group below, select 12 hour tts from at least two specific dis- ciences from at least two specifi 310, or POL SCI 1200 to satistities and Fine Arts	rs to include ciplines and	
			at least two specific discipline	9 \$.	
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature II: 1800 to Present 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	6
			and Social Sciences at least two specific discipline	ac.	
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	HISTORY 1100 or HISTORY 1200* o PHIL 1105 or POL SCI 1200* o 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 American Government*or General Psychology or Principles of Microeconomics 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	27 28 Total Hours 55		Group 2 Major Requirements Group 1 Core Requirements Total H *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	

	Civil Engine	ering Group	2 Major Requ	uirements	
	Three Rivers College	Seme	ster	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CIVL 116 and 216	Surveying I and II	6	CIV ENG 2401	Fundamentals of Surveying	3
	From the of 6 hours Hur	ptions listed in each grou nanities and Fine Arts from vioral and Social Sciences	s General Education Requi up below, select 15 hours to in a at least two specific discipline from at least two specific disci POL SCI 1200 to satisfy the	clude s and iplines.	
		Humanities ar	nd Fine Arts		
ENGL 231 or ENGL 232 or	Se English Literature to 1798 or English Literature since 1798 or	elect 6 hours from at leas	t two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present	
ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or	American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or	6	ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* 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	6
ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.		ART 1180 or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	American History Since 1877* or Art Appreciation or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	
		Behavioral and S	ocial Sciences		
	Se	elect 6 hours from at leas			
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	HISTORY 1100 or HISTORY 1200* or PHIL 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 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			
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. Group 2 Major Requirements Group 1 Core Requirements	0 28 28 otal Hours 56		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 Civil Engineering degree.	0 26 23 49

	Computer Eng	nineeri	na Gra	un 2 Maior R	equirements	
	- Compater Eng	Jilleeli	ng Gi	Tap 2 Major IX	equirements —	
	Three Rivers College		Semes	ster	Missouri S&T	
SCOM 110	Public Speaking		3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I		4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the 6 hours H	e options listed Humanities and chavioral and S STORY 1200, 1	d in each grou Fine Arts from ocial Sciences 1300, 1310, or	•	clude s and iplines.	
		-	lumanities ar			
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature to 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "Satisfies the State of Missouri government requirement.	Select 6 nour	s from at leas	t two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1222 or ENGLISH 1223 or HISTORY 1300* or HISTORY 1300* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
				ocial Sciences		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	t two specific disciplines. HISTORY 1100 or HISTORY 1200* or PHIL 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 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
		Humani		d Social Sciences		
ENGL 112	Advanced College Writing		Select 3	nours. ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	Total Hours	3 25 28 53	Electives	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 Computer Engineering degree.	3 26 23 49

	Electrical Eng	ineering Gr	oup 2 Major R	equirements	
	Three Rivers College	Sem	ester	Missouri S&T	
SCOM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
CHEM 121	General Chemistry I	4	CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
	From the 6 hours H	e options listed in each gro lumanities and Fine Arts fro havioral and Social Science STORY 1200, 1300, 1310, o	•	nclude es and ciplines.	
			and Fine Arts ust two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature to 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 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 Art Appreciation or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement.	6
			Social Sciences		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	ust two specific disciplines. HISTORY 1100 or HISTORY 1200* or PHIL 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 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		
ENGL 112	Advanced College Writing	Select 3	3 hours. ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	6 28 28 28 Total Hours 56	Electives	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 Electrical Engineering degree.	6 29 23 52

	Engineering Ma	nagen	nen	it Group 2 Majo	r Requirements	
	Three Rivers College			Semester	Missouri S&T	
SCOM 110	Public Speaking		3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 121	General Chemistry I		4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From th 6 hours I	e options liste Humanities and ehavioral and S	d in ea d Fine A Social S	sciences General Education Re tich group below, select 15 hours to Arts from at least two specific discipl sciences from at least two specific of 1310, or POL SCI 1200 to satisfy the	include ines and isciplines.	
				ities and Fine Arts		
		Select 6 hour	rs from	at least two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or			ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 to 1865 or American Literature: 1865 to Present or	
ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or	World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or		6	ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or	World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or	6
ARTS 110 or MUSC 123 or THEA 120	Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "Satisfies the State of Missouri government requirement.			ART 1180 or MUSIC 1150 or THEATRE 1150	Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change "Satisfies the State of Missouri government requirement.	
	0-1-+0-1-			Il and Social Sciences	VOL 4404	
		urs from at lea		specific disciplines to include PS		
PSYC 111	General Psychology		3	PSYCH 1101	General Psychology Required	3
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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 PHIL 1105 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 American Government*or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language 'Satisfies the State of Missouri government requirement.	3
		Human		Arts, and Social Sciences Select 3 hours.		
ENGL 112	Advanced College Writing		3	ENGLISH 1160	Writing and Research	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	Total Hours	0 22 28 50	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 Engineering Management degree.	0 23 23 61

	Environmental	Enginee	ring G	Group 2 Major	Requirements	
	Three Rivers College		Seme	ster_	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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		4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry II		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
BIOL 100 or BIOL 191	Survey of Biological Principles (3) or Biology I (4)		3	BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab or Principles of Biology* 'BIO SCI 1213 will be substituted for BIO SCI 1113.	3
	From 6 hour	the options listed is Humanities and I Behavioral and So HISTORY 1200, 1	in each grou Fine Arts from ocial Sciences 300, 1310, or	•	ude and lines.	
				nd Fine Arts It two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.		6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300° or HISTORY 1310° or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
	Salact 6 h			Social Sciences disciplines to include HISTOR	2V 1200	
HIST 122*	World Civilization since the Renaissance* *Satisfies the State of Missouri Government requirement.	odi 3 irom at icas	3	HISTORY 1200*	Modern Western Civilization* - Satisfies the State of Missouri Government requirement.	3
PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	Intro to Philosophy or National and State 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	PHIL 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy 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 28 54		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 23 49

	Geological Eng	ineerinç	g Group 2 Major F	Requirements	
OUEN 101	Three Rivers College		Semester CUEN 1010 1010	Missouri S&T	_
CHEM 121	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the c 6 hours Hu	options listed in emanities and Fine avioral and Social ORY 1200, 1300,	Sciences General Education Requeach group below, select 15 hours to in Arts from at least two specific discipline Sciences from at least two specific disc 1310, or POL SCI 1200 to satisfy the unities and Fine Arts	nclude es and ciplines.	
	S		m at least two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change 'Satisfies the State of Missouri government requirement.	6
			ral and Social Sciences		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	m at least two specific disciplines. HISTORY 1100 or HISTORY 1200* or PHIL 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or FOON 1200 or	Early Western Civilization or Modern Western Civilization* or Self and World: Intro to Philosophy 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 Social Sciences Select 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histomusic, 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. Group 2 Major Requirements Group 1 Core Requirements	0 19 28 otal Hours 47		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* "\$8T advisor permission is required to transfer more than 65 credits toward the \$8T Geological Engineering degree.	0 20 23 43

	Mechanical En	Ŭ .		p 2 Major F		
	Three Rivers College		<u>Semester</u>		Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
	From the 6 hours h	e options listed in ea lumanities and Fine A chavioral and Social S	ich group be Arts from at le Sciences from	neral Education Requ low, select 15 hours to in ast two specific discipline at least two specific disc SCI 1200 to satisfy the	clude s and iplines.	
			ities and Fi			
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "satisfies the State of Missouri government requirement."	Select 6 hours from	at least two	specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfes the State of Missouri government requirement.	6
			I and Socia			
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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.	Select 6 hours from	at least two	specific disciplines. HISTORY 1100 or HISTORY 1200° or PHIL 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 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 So Select 3 hours	ocial Sciences s.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hi music, theater, English and technical communicatic philosophy, political science, psychology, economic etymology, or foreign language.	story, art, on,		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 22 28 Total Hours 50			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 23 23 46

	Metallurgical Enç	gineering	Group 2 Major	Requirements	
	Three Rivers College	Ser	nester	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 122	General Chemistry II	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
	From the c 6 hours Hu	options listed in each g manities and Fine Arts f avioral and Social Scien	nces General Education Requi proup below, select 15 hours to incrom at least two specific disciplines ces from at least two specific disci- or POL SCI 1200 to satisfy the selections.	irements clude s and plines.	
		Humanities	and Fine Arts	·	
		elect 6 hours from at le	east two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature to 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1223 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
			d Social Sciences		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	east two specific disciplines. HISTORY 1100 or HISTORY 1200* or PHIL 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 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 at 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	3		Maximum Free Electives	3
	Group 2 Major Requirements Group 1 Core Requirements T	29 28 otal Hours 57		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.	29 23 s* 52

	Mining Engin	eering Gro	up 2 Major Red	quirements	
	Three Rivers College	Sem	ester	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the 6 6 hours Hu	options listed in each gr manities and Fine Arts fr avioral and Social Scienc ORY 1200, 1300, 1310,		clude s and plines.	
			and Fine Arts ast two specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature to 1870 or American Literature to 1800 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre "Satisfies the State of Missouri government requirement.	elect o nours from at le	ENGLISH 1211 or ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1221 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
			Social Sciences		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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.	elect 6 hours from at le	ast two specific disciplines. HISTORY 1100 or HISTORY 1200* or PHIL 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 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	0 19 28 otal Hours 47		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 Mining Engineering degree.	0 20 23 s* 43

	Nuclear Engin	eering	Group	2 Major Re	equirements	
	Three Rivers College		Semeste	[Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public Speaking	3	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	4	l .	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the o 6 hours Hun	ptions listed in nanities and Footonal and Soo DRY 1200, 13	n each group b ine Arts from at I cial Sciences fron 00, 1310, or PO	•	nclude es and ciplines.	
	Se		manities and F	ine Arts o specific disciplines.		
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre *Satisfies the State of Missouri government requirement.	e e		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1800 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 Art Appreciation or Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change 'Satisfies the State of Missouri government requirement.	6
		Behav	ioral and Soci	al Sciences		
		lect 6 hours t	from at least tw	o specific disciplines.		
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics	3	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State Government* or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	3	HISTORY 1100 or HISTORY 1200* or PHIL 1105 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 American Government*or General Psychology or Elementary or Intermediate Foreign Language *Satisfes the State of Missouri government requirement.	3
		Humaniti	es, Arts, and S Select 3 hou	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histor 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	()		Maximum Free Electives	0
	Group 2 Major Requirements		2		Group 2 Major Requirements	23
	Group 1 Core Requirements	2 otal Hours 5			Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	23 46

	Petroleum Engii	neering Gr	oup 2 Major R	equirements	
	Three Rivers College	Seme	ster	Missouri S&T	
ENGL 112 or SCOM 110	Advanced College Writing or Public 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	4	CHEM 1310, 1319	General Chemistry I and Lab	5
	From the op 6 hours Hum	tions listed in each gro anities and Fine Arts fror ioral and Social Science	es General Education Requ up below, select 15 hours to in n at least two specific discipline s from at least two specific disc r POL SCI 1200 to satisfy the	iclude es and iplines.	
		Humanities a			
ENGL 231 or ENGL 232 or ENGL 241 or	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or	ect o nours from at leas	st two specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or	
ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre 'Satisfies the State of Missouri government requirement.	6	ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1150	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 Art Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfes the State of Missouri government requirement.	6
		Behavioral and	Social Sciences		
	Sel	ect 6 hours from at leas	st two specific disciplines.		
HIST 121 or HIST 122* or PHIL 200 or GOVT 121* or PSYC 111 or ECON 212 or ECON 211 or Foreign Language	World Civilization to the Renaissance or World Civilization since the Renaissance* or Intro to Philosophy or National and State 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	HISTORY 1100 or HISTORY 1200° or PHIL 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 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, a Select 3			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history 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 To	0 22 28 tal Hours 50		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 Petroleum Engineering degree.	0 23 23 46