Southeast Missouri State University — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2025

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

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

Group 1 - Core Requirements: All Majors Take All Courses

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

	Southeast Missouri State University	<u>Ser</u>	<u>nester</u>	<u>Missouri S&T</u>		
MA 140	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.		4
MA 145	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II Grade of C or better is required.		4
MA 244	Analytic Geometry & Calculus III	4	MATH 2222	Calculus III Grade of C or better is required.		4
MA 350	Differential Equations I	3	MATH 3304	Elementary Differential Equations		3
PH 230	General Physics I	5	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PH 231	General Physics II	5	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
EP 100	Intro to Engineering	3	FR ENG 1100	Study and Careers in Engineering and Computing		1
EN 100	English Composition	3	ENGLISH 1120	Exposition and Argumentation		3
		Total Hours 33			Total Hours	27

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

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

Aerospace Engineering

Architectural Engineering

Biomedical Engineering/Biomanufacturing or Biomaterials

Ceramic Engineering

Chemical Engineering and Biochemistry Emphasis

Civil Engineering

Computer Engineering

Electrical Engineering

Engineering Management

Environmental Engineering

Geological Engineering

Mechanical Engineering

Metallurgical Engineering

Mining Engineering

Nuclear Engineering

Petroleum Engineering

Engineering Major Requirements are detailed on the following pages.

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

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

	Aerospace Eng	ineerin	g Grou	p 2 Major R	equirements	
	Southeast Missouri State University		Semester		Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
EN 140 or SC 105 or EN 309 or IM 300	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CS 155 EP 240	Computer Science I	4		CS 1971, 1981 ELEC ENG 2800	Intro to Programming Method and Lab (C++) Electrical Circuits	3
EP 240 EP 261	Circuit Analysis I Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 263	Mechanics of Materials	4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
MA 345	Linear Algebra	3		MATH 3108	Linear Algebra I Satisfies the Advanced Math/Comp Sci elective requirement.	3
PL 204	Ethical Theory 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
	6 hours Hur 6 hours Beha *At least one course must be selected from HIST	manities and Fine avioral and Socia ORY 1200, 1300 Hum	e Arts from at le I Sciences from I, 1310, or POL anities and F	ne Arts	and blines.	
LI 260 or	English Literature I or	elect 6 hours fro	m at least two	specific disciplines. ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
LI 260 of LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature I or American Literature II or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *Satisfies the State of Missouri government requirement.	6		ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 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 American History Since 1877* or Art Appreciation or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			ral and Socia			
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Se Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* 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.	elect 6 hours fro	m at least two	specific disciplines. HISTORY 1100 or HISTORY 1200* or HISTORY 2110 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 World Regional Geography MOTR GEOG 101 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 s.		
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	42 33 otal Hours 75			Group 2 Major Requirements Group 1 Core Requirements Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	44 27 71

	Architectural Eng	ineerir	ng Gro	up 2 Major	Requirements	
	Southeast Missouri State University		Semester		Missouri S&T	
MN 120 EN 140 or SC 105 or EN 309 or IM 300	Fundamentals of Engineering Design Processes Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3		MECH ENG 1720 ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Intro to Engineering Design Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4		CIV ENG 2210,2211	Mechanics of Materials and Materials Testing	4
GO 110	Physical Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the opt 6 hours Huma	tions listed in e anities and Fine ioral and Social	each group be Arts from at le Sciences from	eneral Education Requi elow, select 15 hours to inc east two specific disciplines in at least two specific disci	clude s and plines.	
	"At least one course must be selected from his lot		anities and Fi		State of Missouri government requirement.	
	Sele			specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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 MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature I: 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 Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			ral and Socia		DV 4000	
	Modern European Civilization*		specific disc	iplines to include HISTO	Modern Western Civilization*	
EH 103*	*Satisfies the State of Missouri government requirement.	3		HISTORY 1200*	*Satisfies the State of Missouri Government requirement.	3
PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Readings in Philosophy or Symbolic Logic I or US Political Systems* 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
			, Arts, and So RT 3203 requ	ocial Sciences ired.		
CM 226	Residential Architectural Drafting and Design	3		ART 3203	Architectural Design I	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Tot	38 33 al Hours 71			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.	38 27 65

	Biomedical E Group		_	-Biomanufa equirements		
	Southeast Missouri State University		Semester	•	Missouri S&T	
SC 105	Fundamentals of Oral Communication	3		SP&MS 1185	Principles of Speech	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
CH 341, 342	Foundations of Organic Chemistry (4) and Lab (1)	5		CHEM 2210, 2219	*CHEM 1510 is not a degree requirement, transfers as general elective credit. Organic Chemistry I and Lab	4
CH 343, 344 or BS 218 or BI 283	Advanced Organic Chemistry (3) and Lab (2) or Biological Science: A Process Approach MOTR BIOL 100L or Genetics (4)	5		CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or General Genetitics Applies to Garge as Track Elective.	4
BS 113	Anatomy and Physiology I	4		BIO SCI 3333, 3359	Anatomy and Physiology I and Lab	4
CS 101 or CS 265 or CS 300 or CS 351 or CS 155*	Intro to Computer Programming or Computer Science II or Computer Science III or C and the Posix Environment or Computer Science I*	3		CS 1500 or CS 1971,1981*	Computational Problem Solving or Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
	From the optior 6 hours Humaniti	ns listed in les and Find 3 hours Be	each group be e Arts from at le havioral and So		ude and	
	At least one course must be selected from his fort		anities and F	•	tate of Missouri government requirement.	
	Select			specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature II or World Literature II or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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 MUSIC 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 Music Understanding and Appreciation "Satisfies the State of Missouri government requirement.	6
		Behavio	ral and Socia			
EH 101 or EH 103* or GG 180 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or US Political Systems* 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 hour	IS. HISTORY 1100 or HISTORY 1200° or HISTORY 2110 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
			s, Arts, and S e GLISH 3560 re	ocial Sciences equired.		
EN 309 or IM 300	Writing for Science and Technology or Technical Communication	3		ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total H	0 40 33 Hours 73			Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements Total Hours* **S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	0 38 27 65

				ing-Biomate equirements		
	Southeast Missouri State University	•	Semester		Missouri S&T	
SC 105	Fundamentals of Oral Communication	3		SP&MS 1185	Principles of Speech	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)	3
CH 341, 342	Foundations of Organic Chemistry (4) and Lab (1)	5		CHEM 2210, 2219*	*CHEM 1510 is not a degree requirement, transfers as general elective credit. Organic Chemistry I and Lab*	4
CH 343, 344	Advanced Organic Chemistry (3) and Lab (2) or	5		CHEM 2220, 2229*	*CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering). Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BS 218	Biological Science: A Process Approach MOTR BIOL 100	L		BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BS 113	Anatomy and Physiology I	4		BIO SCI 3333, 3359	Human Anatomy and Physiology I and Lab	4
CS 101 or CS 265 or CS 300 or CS 351 or CS 155*	Intro to Computer Programming or Computer Science II or Computer Science III or C and the Posix Environment or Computer Science I*	3		CS 1500 or CS 1971,1981*	Computational Problem Solving or Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 240	Circuit Analysis I	3		ELEC ENG 2100*, 2101	Circuits I* (3) and Circuit Analysis Lab (1) 'A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for ELEC ENG 2100. Applies to the degree as a Track Elective (Engineering).	4
	6 hours Hu *At least one course must be selected from HIST	manities and Fine 3 hours Beh FORY 1200, 1300, Huma	Arts from at leavioral and Second 1310, or POI	ine Arts	and	
LI 260 or	English Literature I or	elect 6 hours from	m at least two	specific disciplines. ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
LI 260 or LI 270 or LI 271 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature II or English Literature II or American Literature II or American Literature II or World Literature II or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression **satisfies the State of Missouri government requirement.	6		ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 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 American History Since 1877* or Art Appreciation or Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
			ral and Social Select 3 hou			
EH 101 or EH 103* or GG 180 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or US Political Systems* 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 flou	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
			Arts, and S	ocial Sciences equired.		
EN 309 or IM 300	Writing for Science and Technology or Technical Communication	3		ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	46 33 Total Hours 79			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.	49 27 s* 76

	Ceramic Engi	neering	g Group	2 Major Re	quirements	
	Southeast Missouri State University		Semester	1	Missouri S&T	
MN 120 EN 140 or SC 105 or EN 309 or IM 300	Fundamentals of Engineering Design Processes Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3		MECH ENG 1720 ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Intro to Engineering Design Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 263	Mechanics of Materials	4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CH 341	Foundations of Organic Chemistry	4		CHEM 2210	Organic Chemistry I (3) Will satisfy the advanced chemistry elective requirement.	3
				eneral Education Requir	rements	
	6 hours Hu	umanities and Fi navioral and Soc TORY 1200, 13	ne Arts from at le ial Sciences fror	•	and blines.	
	S			o specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature II or American History I* or American History I* or Perspectives in Art or Music: An Artistic Expression *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 HISTORY 1310° or ART 1180 or MUSIC 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 Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
	c		ioral and Socia			
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 OF Readings in Philosophy or Symbolic Logic I or US Political Systems* 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 HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.	6
		Humanitie	es, Arts, and S Select 3 hou	ocial Sciences rs.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hist music, theater, English and technical communication philosophy, political science, psychology, economics etymology, or foreign language.	۱, م		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 4/ 3: Total Hours 7:	3		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 Ceramic Engineering degree.	0 38 27 65

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

	Gr	oup 2 Ma	ajor Re	equirement	S	
	Southeast Missouri State University		Semester		Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
00.405	Fundamentals of Oral Communication	3		SP&MS 1185	Principles of Speech	3
SC 105 CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
	,				General Chemistry I (3) and Qualitative Analysis* (2)	
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	*CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CH 341, 342	Fundamentals of Organic Chemistry and Lab	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
CH 343 or BI 200	Advanced Organic Chemistry (3) or General Microbiology (3) Select up to 6 credits.	6		CHEM 2220 or BIO SCI 3313	Organic Chemistry II (3) or Microbiology and Lab (3) Select up to 6 credits. Will apply to the degree as 6 of 9 required science elective credits.	8
CS 101 or CS 265 or CS 300 or CS 351 or CS 155*	Intro to Computer Programming or Computer Science II or Computer Science III or C and the Posix Environment or Computer Science I*	3		CS 1500 or CS 1971,1981*	Computational Problem Solving or Intro to Programming Methodology and Lab* C++) *Will be substituted for CS 1500.	3
	·	Arts, and Social	Sciences Ge	eneral Education Requ	uirements	
	6 hours I	Humanities and Fine chavioral and Social	Arts from at le Sciences from	elow, select 15 hours to in east two specific discipline of at least two specific disc SCI 1200 to satisfy the	es and ciplines.	
		Huma	nities and Fi	ine Arts		
		Select 6 hours from	n at least two	specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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 MUSIC 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: 1865 in Present or American History to 1877* 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 Socia			
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* 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.	Select 6 hours from	π at least two	o specific disciplines. HISTORY 1100 or HISTORY 1200° or HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
				ocial Sciences		
EN 309 or IM 300	Writing for Science and Technology or Technical Communication	ENG 3	LISH 3560 re	quired. ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	43			Group 2 Major Requirements	44
	Group 1 Core Requirements	33			Group 1 Core Requirements	27
	· ·	Total Hours 76			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	71

	Civil Engine	ering (Group	o 2 Major Requ	irements	
MN 120	Southeast Missouri State University Fundamentals of Engineering Design Processes	,	Seme	ester MECH ENG 1720	Missouri S&T Intro to Engineering Design	3
EN 140 or SC 105 or EN 309 or IM 300	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication		3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Mriting and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4	1	CHEM 1310, 1319	General Chemistry I and Lab	5
GO 110	Physical Geology	5	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
EP 261	Engineering Mechanics-Statics	3	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics-Dynamics	3	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4	1	CIV ENG 2210,2211	Mechanics of Materials and Materials Testing	4
	Humanities, A	rts, and Soc	ial Science	es General Education Requir		
	6 hours Hur	nanities and F vioral and So	ine Arts fron	up below, select 15 hours to incl n at least two specific disciplines s from at least two specific discip r POL SCI 1200 to satisfy the S	and lines.	
		Hu	manities a	nd Fine Arts		
	Se	elect 6 hours	from at leas	st two specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 105* or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature I or American History I* or American History I* or Perspectives in Art or Music: An Artistic Expression *Satisfies the State of Missouri government requirement.	(3	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	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 Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
		Behav	ioral and	Social Sciences		
		elect 6 hours	from at leas	st two specific disciplines.		
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 OF Readings in Philosophy or Symbolic Logic I or US Political Systems* 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	3	HISTORY 1100 or HISTORY 1200° or HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humaniti	es, Arts, a Select 3	nd Social Sciences 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. Group 2 Major Requirements Group 1 Core Requirements T	(3 3 otal Hours 7	8 3		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 38 27 65

	Computer Enç	gineerin	g Grou	p 2 Major Re	equirements	
	Southeast Missouri State University		Semeste	<u>r</u>	Missouri S&T	
SC 105	Fundamentals of Oral Communication	3		SPMS 1185	Principles of Speech	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement. General Chemistry I and Lab	5
CH 100, 104	General Chemistry Fand Lab	4		COMP SCI 1200	Discrete Math for Computer Science	3
CS 101 or	Intro to Computer Programming or			COINT COT 1200	Discrete Math for Computer Colonice	
CS 155 or	Computer Science I or					
CS 265 or	Computer Science II or	3		CS 1500	Computational Problem Solving	3
CS 300 or	Computer Science III or					
CS 351	C and the Posix Environment					
EP 261 or	Engineering Mechanics-Statics (3) or			CIV ENG 2200 or	Engineering Mechanics-Statics (3) or	
EP 262 or	Engineering Mechanics-Dynamics (3) or			MECH ENG 2350 or	Engineering Mechanics-Dynamics (2) or	3
CH 341 or	Fundamentals of Organic Chemistry (4) or	4		CHEM 2210 or	Organic Chemistry I (3) or	3
BI 283	Genetics (4)			BIO SCI 2223	General Genetics (3) Satisfies a required engineering/science elective.	
					Circuits I* (3) and Circuit Analysis Lab (1)	
EP 240	Circuit Analysis I	3		ELEC ENG 2100*, 2101	*A passing grade on the Missouri S&T EE Advancement Exam I is required to receive	4
					credit for ELEC ENG 2100.	
MA 345	Linear Algebra	3		MATH 3108	Linear Algebra Satisfies a required math elective.	3
	From th 6 hours	ie options listed in Humanities and Fir ehavioral and Soci	each group be e Arts from at al Sciences fro	eneral Education Require elow, select 15 hours to include least two specific disciplines a m at least two specific discipl L SCI 1200 to satisfy the St	ude and ines.	
		Hun	anities and F	ine Arts		
		Select 6 hours fr	om at least tw	o specific disciplines.		
LI 260 or	English Literature I or			ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
LI 261 or	English Literature II or			ENGLISH 1212 or	British Literature II: 1800 to Present	
LI 270 or	American Literature I or			ENGLISH 1221 or	American Literature: 1600 to 1865 or	
LI 271 or LI 211 or	American Literature II or World Literature I or			ENGLISH 1222 or ENGLISH 1231 or	American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or	
US 105* or	American History I* or	6		HISTORY 1300* or	American History to 1877* or	6
US 107* or	American History II* or			HISTORY 1310* or	American History Since 1877* or	
AR 112 or	Perspectives in Art or			ART 1180 or	Art Appreciation or	
MU 182	Music: An Artistic Expression			MUSIC 1150	Music Understanding and Appreciation	
	*Satisfies the State of Missouri government requirement.				*Satisfies the State of Missouri government requirement.	
			oral and Soci			
		Select 6 hours fr	om at least tw	o specific disciplines.		
EH 101 or	Early European Civilization or			HISTORY 1100 or	Early Western Civilization or	
EH 103* or	Modern European Civilization* or			HISTORY 1200* or	Modern Western Civilization* or	
GG 180 or PL 110 or	Cultural Geography MOTR GEOG 101 or			HISTORY 2110 or PHILOS 1105 or	World Regional Geography or	
PL 110 or PL 120 or	Readings in Philosophy or Symbolic Logic I or			PHILOS 1105 or	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or	
PS 103* or	US Political Systems* or	6		POL SCI 1200* or	American Government*or	6
PY 101 or	Intro to Psychology or	U		PSYCH 1101 or	General Psychology or	U
EC 215 or	Principles of Microeconomics or			ECON 1100 or	Principles of Microeconomics or	
EC 225 or	Principles of Macroeconomics or			ECON 1200 or	Principles of Macroeconomics or	
Foreign Language	Elementary or Intermediate Foreign Language			Foreign Language	Elementary or Intermediate Foreign Language	
3 3 3	*Satisfies the State of Missouri government requirement.			3 3 3	*Satisfies the State of Missouri government requirement.	
		Humanitie	s, Arts, and S Select 3 hou	Social Sciences urs.		
EN 140 or	Rhetoric and Critical Thinking or			ENGLISH 1160 or	Writing and Research or	
EN 309 or	Writing for Science and Technology or	3		ENGLISH 3560	Technical Writing	3
IM 300	Technical Communication					
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3
	Group 2 Major Requirements	38			Group 2 Major Requirements	42
	Group 1 Core Requirements	33			Group 1 Core Requirements	27
		Total Hours 71			Total Hours *S&T advisor permission is required to transfer more than 68 credits toward the S&T	* 69

	Electrical Engineer	ing	Group	o 2 Major Rec	quirements	
9	Southeast Missouri State University		Semester		Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
SC 105		3			Principles of Speech	
SC 105	Fundamentals of Oral Communication	3		SPMS 1185	Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CS 101 or	Intro to Computer Programming or					
CS 155 or	Computer Science I or					
CS 265 or	Computer Science II or	3		CS 1500	Computational Problem Solving	3
CS 300 or	Computer Science III or					
CS 351	C and the Posix Environment					
EP 261 and	Engineering Mechanics-Statics (3) and			CIV ENG 2200 and	Engineering Mechanics-Statics (3) and	
EP 262	Engineering Mechanics-Dynamics (3)			MECH ENG 2350	Engineering Mechanics-Dynamics (3)	
BOTH of the courses above or ONE of	of Both courses above combined or any one of the following courses will satisfy a required engineering science elective.			BOTH of the courses above or ONE of	Both courses above combined or any one of the following courses will satisfy a required engineering science elective.	
the courses below.	engineering science elective. OR	4		the courses below.	engineering science elective. OR	3
OR	0.1			OR		
CH 341 or	Fundamentals of Organic Chemistry (4) or			CHEM 2210 or	Organic Chemistry I (4) or	
BI 283	Genetics (4)			BIO SCI 2223	General Genetics (3)	
					Circuits I* (3) and Circuit Analysis Lab (1)	
EP 240	Circuit Analysis I	3		ELEC ENG 2100*, 2101	*A passing grade on the Missouri S&T EE Advancement Exam I is required to receive	4
		_			credit for ELEC ENG 2100.	
MA 345	Linear Algebra	3		MATH 3108 eneral Education Requirer	Linear Algebra	3
LI 260 or LI 261 or LI 270 or	*At least one course must be selected from HISTORY 120 Select 6 ho English Literature I or English Literature II or American Literature I or	d Social 0, 1300 Huma	Sciences from , 1310, or POL anities and F	ine Arts o specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or	es. te of Missouri government requirement. British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or	
LI 271 or	American Literature II or			ENGLISH 1222 or	American Literature: 1865 to Present or	
LI 211 or	World Literature I or	6		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or	6
US 105* or	American History I* or	U		HISTORY 1300* or	American History to 1877* or	U
US 107* or	American History II* or			HISTORY 1310* or	American History Since 1877* or	
AR 112 or	Perspectives in Art or			ART 1180 or	Art Appreciation or	
MU 182	Music: An Artistic Expression			MUSIC 1150	Music Understanding and Appreciation	
	*Satisfies the State of Missouri government requirement.				*Satisfies the State of Missouri government requirement.	
			ral and Socia			
	Select 6 ho	ours fro	m at least two	specific disciplines.		
EH 101 or	Early European Civilization or			HISTORY 1100 or	Early Western Civilization or	
EH 103* or	Modern European Civilization* or			HISTORY 1200* or	Modern Western Civilization* or	
GG 180 or	Cultural Geography MOTR GEOG 101 or			HISTORY 2110 or	World Regional Geography or	
PL 110 or	Readings in Philosophy or			PHILOS 1105 or	Self and World: Intro to Philosophy or	
PL 120 or	Symbolic Logic I or			PHILOS 1115 or	Logic and Reasoning: An Introduction or	
PS 103* or	US Political Systems* or	6		POL SCI 1200* or	American Government*or	6
PY 101 or	Intro to Psychology or			PSYCH 1101 or	General Psychology or	
EC 215 or	Principles of Microeconomics or			ECON 1100 or	Principles of Microeconomics or	
EC 225 or	Principles of Macroeconomics or			ECON 1200 or	Principles of Macroeconomics or	
Foreign Language	Elementary or Intermediate Foreign Language			Foreign Language	Elementary or Intermediate Foreign Language	
	*Satisfies the State of Missouri government requirement.				*Satisfies the State of Missouri government requirement.	
		anities	, Arts, and So Select 3 hour	ocial Sciences rs.		
EN 140 or	Rhetoric and Critical Thinking or			ENGLISH 1160 or	Writing and Research or	
EN 309 or	Writing for Science and Technology or	3		ENGLISH 1100 01 ENGLISH 3560	Technical Writing	3
IM 300	Technical Communication			LINGLIGIT 3300	recrimeal writing	
Electives	Maximum Free Electives	6		Electives	Maximum Free Electives	6
LICOLIVOS	Group 2 Major Requirements	44		LICOUVES	Group 2 Major Requirements	45
		33			Group 1 Core Requirements Group 1 Core Requirements	45 27
	Group 1 Core Requirements					
	Total Hour	s //			Total Hours* *S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	72

	Engineering Ma	nageme	en	nt Group 2 Major F	Requirements	
	Southeast Missouri State University			Semester	Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
10114 120	0 0 0				Principles of Speech	
SC 105	Fundamentals of Oral Communication	3		SPMS 1185	Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CS 155	Computer Science I	5		CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
EP 240	Circuit Analysis I	3		ELEC ENG 2800	Electrical Circuits	3
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
	From the	e options listed in lumanities and Fi	n ea ne A	Sciences General Education Requir ach group below, select 15 hours to incl Arts from at least two specific disciplines sciences from at least two specific discip	ude and	
	*At least one course must be selected from HIS			•		
				nities and Fine Arts	9	
				at least two specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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	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 Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
	Select 6 hou			al and Social Sciences specific disciplines to include PSYCH	l 1101.	
PY 101	Intro to Psychology	3		PSYCH 1101	General Psychology Required	3
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* 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 HISTORY 2110 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 World Regional Geography 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
		Humanitie		Arts, and Social Sciences Select 3 hours.		
EN 140 or EN 309 or IM 300	Rhetoric and Critical Thinking or Writing for Science and Technology or Technical Communication	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
	No free electives applied to the degree.	0		Electives	Maximum Free Electives	0
	Group 2 Major Requirements	43			Group 2 Major Requirements	40
	Group 1 Core Requirements	Total Hours 76			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.	27 * 67

	Environmental Engi	neeri	ng Gr	oup 2 Major	Requirements	
	Southeast Missouri State University		Semester		Missouri S&T	
MN 120 EN 140 or SC 105 or EN 309 or IM 300	Fundamentals of Engineering Design Processes Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3		MECH ENG 1720 ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Intro to Engineering Design Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
GO 110	Physical Geology	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BS 108 or BS 151 or BS 218	Biology for Living MOTR BIOL 100 or Biological Reasoning MOTR BIOL 100 or Biological Science: A Process Approach MOTR BIOL 100L	3		BIO SCI 1113 or BIO SCI 1113 or BIO SCI 1113, 1219*	General Biology (3) or General Biology (3) or General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4	Saionean G	CIV ENG 2210,2211 eneral Education Require	Mechanics of Materials and Materials Testing	4
	6 hours Humanitie	es and Fine I and Social 1200, 1300,	Arts from at le Sciences from 1310, or POL		and ines.	
	Colort		inities and F	ine Arts o specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature I or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1310* or ART 1180 or MUSIC 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 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 o specific disc	al Sciences ciplines to include HISTOR		
EH 103*	Modern European Civilization* *Satisfies the State of Missouri government requirement.	3		HISTORY 1200*	Modern Western Civilization* *Satisfies the State of Missouri Government requirement.	3
PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Readings in Philosophy or Symbolic Logic I or US Political Systems* 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. Group 2 Major Requirements Group 1 Core Requirements Total H	0 42 33 lours 75			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 Environmental Engineering degree.	0 41 27 68

	Southeast Missouri State University		Semester		Missouri S&T	
/N 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
EN 309 or M 300	Writing for Science and Technology or Technical Communication	3		ENGLISH 3560	Technical Writing Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CS 101 or CS 265 or CS 300 or CS 351 or	Intro to Computer Programming or Computer Science II or Computer Science III or C and the Posix Environment or	3		CS 1500 or CS 1971, 1981	Computational Problem Solving or Intro to Programming Methodology and Lab	3
CS 155 GO 110	Computer Science I Physical Geology	3		GEO ENG 1150 (GEOLOGY 1110)	Physical and Environmental Geology	3
EP 261	Engineering Mechanics-Statics	3			Finalizacija Mashanica Christia	3
	ů ů	3		CIV ENG 2200	Engineering Mechanics-Statics	
EP 262	Engineering Mechanics-Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
	6 hours Huma	inities and Fine oral and Social RY 1200, 1300	Arts from at le Sciences from	•	and blines.	
	Sele			specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature II or Menrican History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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 MUSIC 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 Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			ral and Socia			
		ct 6 hours fro	m at least two	specific disciplines.		
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 OF Readings in Philosophy or Symbolic Logic I or US Political Systems* 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 HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	, Arts, and So Select 3 hour	ocial Sciences s.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	, art, 3		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	41 33			Group 2 Major Requirements Group 1 Core Requirements	40 27
	Tota	al Hours 74			Total Hours* *S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	67

	Mechanical Eng	jineeri	nç	g Group 2 Major F	Requirements	
	Southeast Missouri State University			Semester	Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes		3	MECH ENG 1720	Intro to Engineering Design	3
EN 140 or SC 105 or EN 309 or IM 300	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication		3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab		4	CHEM 1310*, 1319	General Chemistry I and Lab	5
CS 155	Computer Science I		5	CS 1971, 1981	*CHEM 1310 will be substituted for CHEM 1305. Intro to Programming Method and Lab (C++)	3
EP 240	Circuit Analysis I		3	ELEC ENG 2800	Electrical Circuits	3
EP 261	Engineering Mechanics-Statics		3	CIV ENG 2200	Engineering Mechanics-Statics	3
EP 263	Mechanics of Materials		4	CIV ENG 2210,2211	Mechanics of Materials and Materials Testing	4
MA 345	Linear Algebra		3	MATH 3108	Linear Algebra I Satisfies the Advanced Math/Statistics elective requirement.	3
	Humanities, A	Arts, and Soc	cial S	Sciences General Education Requ		
	6 hours Hu	imanities and I avioral and Sc	Fine a	ach 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	s and plines.	
				nities and Fine Arts	3	
	S	elect 6 hours	fron	n at least two specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression "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 MUSIC 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: 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 Sciences		
		elect 6 hours	fron	n at least two specific disciplines.		
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography мотв евов 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* 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 HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanit		Arts, and Social Sciences Select 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any hist music, theater, English and technical communication philosophy, political science, psychology, economics, etymology, or foreign language.	,	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree.		0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	;	43 33 76		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.	42 27 69

	Metallurgical Enginee	erinç	g Gro	up 2 Major F	Requirements	
	Southeast Missouri State University		Semester		Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3		MECH ENG 1720	Intro to Engineering Design	3
EN 140 or SC 105 or EN 309 or IM 300	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
EP 261	Engineering Mechanics-Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 263	Mechanics of Materials	4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
				MET ENG 2110	Metallurgy for Engineers	3
CH 185, 184	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab General Chemistry II (3) and Qualitative Analysis (2)	5
CH 186, 187	General Chemistry II and Lab	4		CHEM 1320, 1510*	*CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CH 341 or EP 240 or	Foundations of Organic Chemistry (4) or Circuit Analysis I (3) or	3		CHEM 2210 or EE 2800	Organic Chemistry I (3) or Electrical Circuits (3) Not specifically required for the degree but will satisfy out-of-department technical elective requirement.	3
	From the options list 6 hours Humanities a	ted in ea nd Fine A d Social S 0, 1300, 1	ach group be Arts from at le Sciences from	•	ide and ines.	
	Select 6 ho			specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature I or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *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 HISTORY 1310* or ART 1180 or MUSIC 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1805 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
	Be	haviora	I and Socia	l Sciences		
	Select 6 ho	urs from	at least two	specific disciplines.		
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 OF Readings in Philosophy or Symbolic Logic I or US Political Systems* 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 HISTORY 2110 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *satisfies the State of Missouri government requirement.	6
	Huma		Arts, and So Select 3 hour	ocial Sciences s.		
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		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 Total Hours	42 33 5 75			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.	44 27 71

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MN 400	Southeast Missouri State University	3	Semester NEO	II ENO 4700	Missouri S&T	3
MN 120 EN 140 or SC 105 or EN 309 or IM 300	Fundamentals of Engineering Design Processes Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication	3	ENG ENG	H ENG 1720 LISH 1160 or LISH 3560 or S 1185	Intro to Engineering Design Writing and Research or Technical Writing or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab	4	CHE	M 1310. 1319	General Chemistry I and Lab	5
EP 261	Engineering Mechanics-Statics	3		ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics-Dynamics	3		H ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials	4		ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
GO 110	Physical Geology	3		LOGY 1110 ENG 1150)	Physical and Environmental Geology	3
		rioral and Social RY 1200, 1300	Arts from at least tw Sciences from at lea , 1310, or POL SCI 1 anities and Fine Ar	st two specific disci 200 to satisfy the	plines.	
	Sel	ect 6 hours fro	m at least two spec	ific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature II or American Literature II or World Literature II or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *Satisfies the State of Missouri government requirement.	6	ENG ENG ENG ENG HIST HIST ART	LISH 1211 or LISH 1212 or LISH 1221 or LISH 1222 or LISH 1231 or ORY 1300* or ORY 1310* or 1180 or IC 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 Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
			ral and Social Scie			
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 OF Readings in Philosophy or Symbolic Logic I or US Political Systems* 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.	ect 6 nours fro	HIST HIST PHIL PHIL POL PSYV ECO ECO	ORY 1100 or ORY 1200* or ORY 2110 or ORY 2110 or OS 1105 or OS 1115 or SCI 1200* or CH 1101 or N 1100 or N 1200 or gn Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missour government requirement.	6
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	35 33 tal Hours 68			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	34 27 61

	Nuclear Engineer	ring	Group 2 Major Rec	quirements	
	Southeast Missouri State University		Semester	Missouri S&T	
MN 120	Fundamentals of Engineering Design Processes	3	MECH ENG 1720	Intro to Engineering Design	3
EN 140 or SC 105 or EN 309 or	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech	3
IM 300	Technical Communication			Applies to degree as Gen Ed Communication requirement.	
CH 185, 184	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CS 155	Computer Science I	5	CS 1971, 1981	Intro to Programming Method and Lab (C++)	3
MA 345	Linear Algebra	3	MATH 3108	Linear Algebra I	3
EP 261	Engineering Mechanics-Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
EP 263	Mechanics of Materials	4	CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
EP 240	Circuit Analysis I	3	ELEC ENG 2800	Electrical Circuits	3
			Sciences General Education Require		
			each group below, select 15 hours to incl		
	6 hours Humanities	s and Fine	Arts from at least two specific disciplines Sciences from at least two specific discipl	and	
	*At least one course must be selected from HISTORY 13	200, 1300	1310, or POL SCI 1200 to satisfy the St	tate of Missouri government requirement.	
			inities and Fine Arts	,	
	Select 6		m at least two specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature I or American Literature II or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression **stiffes the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1310° or HISTORY 1310° or ART 1180 or MUSIC 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 Music Understanding and Appreciation 'Satisfies the State of Missouri government requirement.	6
		Behavio	ral and Social Sciences		
			m at least two specific disciplines.		
EC 215 or EC 225	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography MOTR GEOG 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* or Intro to Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	Hu	manities	Arts, and Social Sciences Select 3 hours.		
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	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	43		Group 2 Major Requirements	41
	Group 1 Core Requirements	33		Group 1 Core Requirements	27
	Total Ho			Total Hours* *S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.	

	Petroleum Eng	ineeri	ng	Grou	p 2 Major Re	equirements	
	Southeast Missouri State University			Semester		Missouri S&T	
EN 140 or SC 105 or EN 309 or IM 300	Rhetoric and Critical Thinking or Fundamentals of Oral Communication or Writing for Science and Technology or Technical Communication		3		ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech Apples to degree as Gen Ed Communication requirement.	3
CH 185, 184	General Chemistry I and Lab		4		CHEM 1310, 1319	General Chemistry I and Lab	5
CS 101 or CS 155 or CS 265 or CS 300 or CS 351	Intro to Computer Programming or Computer Science I or Computer Science II or Computer Science III or C and the Posix Environment		3		COMP SCI 1500	Computational Problem Solving	3
GO 110	Physical Geology		3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
EP 261	Engineering Mechanics-Statics		3		CIV ENG 2200	Engineering Mechanics-Statics	3
EP 262	Engineering Mechanics-Dynamics		3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
EP 263	Mechanics of Materials		4		CIV ENG 2210, 2211*	Mechanics of Materials* (3) and Materials Testing* (1) *CIV ENG 2211 is not a degree requirement. Transfers as general elective credit.	3
	From the 6 6 hours Hu	options listed manities and avioral and So ORY 1200, 1	fin ea Fine a ocial s 300,	ach group be Arts from at le Sciences fron 1310, or POI	•	ude and lines.	
	9			nities and F	ine Arts o specific disciplines.		
LI 260 or LI 261 or LI 270 or LI 271 or LI 211 or US 105* or US 107* or AR 112 or MU 182	English Literature I or English Literature II or American Literature I or American Literature I or World Literature I or World Literature I or American History I* or American History II* or Perspectives in Art or Music: An Artistic Expression *Satisfies the State of Missouri government requirement.		6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1310* or HISTORY 1310* or ART 1180 or MUSIC 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 Music Understanding and Appreciation *Satisfies the State of Missouri government requirement.	6
	9			al and Socia	al Sciences o specific disciplines.		
EH 101 or EH 103* or GG 180 or PL 110 or PL 120 or PS 103* or PY 101 or EC 215 or EC 225 or Foreign Language	Early European Civilization or Modern European Civilization* or Cultural Geography Motra GEOG 101 or Readings in Philosophy or Symbolic Logic I or US Political Systems* 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.	elect o nours	6	r at least two	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1115 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 World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanit		Arts, and 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.		3	Solot o Hou	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 38 33 71			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 37 27 64