## Missouri Baptist 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.

	Missouri Baptist University	Semest	<u>er</u>	Missouri S&T		
MATH 164	Calculus I	4	MATH 1214	Calculus I Grade of C or better is required.		4
MATH 254	Calculus II	4	MATH 1215	Calculus II Grade of C or better is required.		4
MATH 264	Calculus III	4	MATH 2222	Calculus III Grade of C or better is required.		4
MATH 363	Differential Equations	3	MATH 3304	Elementary Differential Equations		3
PHYS 213, 211	General Physics I and Lab	4	PHYSICS 1135	Engineering Physics I Grade of C or better is required.		4
PHYS 223, 221	General Physics II and Lab	4	PHYSICS 2135	Engineering Physics II Grade of C or better is required.		4
ENGL 113	College Composition I	3	ENGLISH 1120	Exposition and Argumentation		3
		Total Hours 26			Total Hours	26

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

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

Aerospace Engineering

**Architectural Engineering** 

Biomedical Engineering/Biomanufacturing or Biomaterials

**Ceramic Engineering** 

**Chemical Engineering and Biochemistry Emphasis** 

Civil Engineering

**Computer Engineering** 

**Electrical Engineering** 

**Engineering Management** 

**Environmental Engineering** 

**Geological Engineering** 

**Mechanical Engineering** 

Metallurgical Engineering

Mining Engineering

**Nuclear Engineering** 

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 Engi	neering	g Grou	p 2 Major F	Requirements	
	Missouri Baptist University		Semester		Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
MATH 353	Linear Algebra	3		MATH 3108	Linear Algebra I Satisfies the Advanced Math/Comp Sci elective requirement.	3
Ethics	Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3		Ethics	Ethics Elective Engineering, business, bio, social or other ethics approved by advisor.	3
	From the o 6 hours Hun	ptions listed in en nanities and Fine vioral and Social	each group be Arts from at le Sciences from	eneral Education Requelow, select 15 hours to in east two specific discipline on at least two specific disc SCI 1200 to satisfy the	nclude es and ciplines.	
			nities and F			
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III (1945-Present) or United States History II* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.  Se Intro to World Geography or Intro to Philosophy or Intro to Logic or	6 <b>Behavi</b> o	ral and Socia	o specific disciplines.  HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or	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 American Literature: 1865 to Present or American History to 1877* or American History Since 1877* or Art Appreciation or Music Understanding and Appreciation statisfies the State of Missouri government requirement.  World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or	6
POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	Arto and S	POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	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
			Select 3 hou			
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histor music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	y, 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 To	29 26 otal Hours 55			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.	29 26 55

	Architectural Engir	neerin	g Group 2 Major I	Requirements	
	Missouri Baptist University		<u>Semester</u>	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHYS 123	Geology and Earth Science	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the optio 6 hours Humanit	ns listed in ea les and Fine A 3 hours Beha	Sciences General Education Requinach group below, select 9 hours to inclearts from at least two specific disciplines twisted and Social Sciences.  1310, or POL SCI 1200 to satisfy the 5	lude s and	
	Select		nities and Fine Arts  at least two specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			al and Social Sciences Select 3 hours.		
CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or 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 Missourl government requirement.	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Total I	20 26 Hours 46		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	20 26 46

		_		_	-Biomanufac equirements	cturing	
	Missouri Baptist University		9	Semester	•	Missouri S&T	
COMM 103	Speech Communications		3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab		5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II		3		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)  *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 313, 312	Organic Chemistry I and Lab		5		CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 323, 322 or BIOL 103, 101 or BIOL 113, 111 or BIOL 343	Organic Chemistry II and Lab (5) or Intro to Biology and Lab (4) or General Biology I and Lab (4) or Genetics (3)		4		CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or Principles of Biology or General Genetics Applies to degree as Track Elective.	4
BIOL 423	Cell Biology		3		BIO SCI 2213, 2219	Cell Biology and Lab	4
ITBU 203	Intro to Application Development		3		COMP SCI 1500 eneral Education Require	Computational Problem Solving	3
		manities and 3 hours ORY 1200, 1	Fine A Behav	rts from at le vioral and Sc 310, or POL	•	and	
	S			ities and Fi	ine Arts o specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) of British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.		6	at loast two	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
		Beha			I Sciences		
EDGE 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3	elect 3 hour	S. HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.		0			Maximum Free Electives	0
	Group 2 Major Requirements		35			Group 2 Major Requirements	35
	Group 1 Core Requirements -		26 61			Group 1 Core Requirements  Total Hours*  *S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	26 61

			$\overline{}$	ing-Biomate equirements		
	Missouri Baptist University		Semeste	<u>r</u>	Missouri S&T	
COMM 103	Speech Communications	3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II	3		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)  *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 313, 312	Organic Chemistry I and Lab	5		CHEM 2210, 2219*	Organic Chemistry I and Lab*  *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHEM 323, 322	Organic Chemistry II and Lab	5		CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIOL 103, 101 or BIOL 113, 111	Intro to Biology and Lab or General Biology I and Lab	4		BIO SCI 1113*, 1219*	General Biology* and Lab*  *Applies to degree as Track Elective (Non-engineering).	4
BIOL 423	Cell Biology	3		BIO SCI 2213, 2219	Cell Biology and Lab	4
ITBU 203	Intro to Application Development	3		COMP SCI 1500 eneral Education Require	Computational Problem Solving	3
	6 hours Human *At least one course must be selected from HISTOR*	ities and Fin 3 hours Be 1200, 130 Hum	e Arts from at I chavioral and S 0, 1310, or PO nanities and F	L SCI 1200 to satisfy the Si ine Arts	and	
	Selec	t 6 hours fr	om at least tw	o specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1845-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
		Behavio	oral and Soci			
EDGE 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	Select 3 hou	rs. HISTORY 2110 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	40 26 Hours 66			Group 2 Major Requirements Group 1 Core Requirements  Total Hours*  **S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.	39 26

	Ceramic Engine	ering (	Group	2 Major Re	quirements	
	Missouri Baptist University		Semester		Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II	3		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)  *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 313	Organic Chemistry I	3		CHEM 2210, 2219*	Organic Chemistry I (3) and Lab* (1) Satisfies the advanced chemistry elective requirement.  *The lab is not a degree requirement, transfers as general elective credit.	3
	From the opt 6 hours Huma	ions listed in eanities and Fine oral and Social	ach group be Arts from at le Sciences from	neral Education Requi dow, select 15 hours to include the select two specific disciplines at least two specific disciplines at least two specific disciplines. SCI 1200 to satisfy the S	clude s and plines.	
	Sele		nities and Fi	ne Arts specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Solnal America t 1865 or American Literature III (1865-1945) or American Literature III (11945-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			al and Socia			
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Sele Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		specific disciplines. HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			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. Group 2 Major Requirements Group 1 Core Requirements Tota	0 29 26 al Hours 55			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 29 26 55

	Chemical Enginee	ring - E	Зio	chem			
		oup 2 i			equirements		
	Missouri Baptist University		<u>s</u>	Semester		Missouri S&T	
COMM 103	Speech Communications		3		SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab		5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II		3		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 313, 312	Organic Chemistry I 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
CHEM 313 or BIOL 423 or BIOL 343	Organic Chemistry I or Cell Biology or Genetics		3		CHEM 2220 or BIO SCI 2213 or BIO SCI 3313, 3319	Organic Chemistry II (3) or Cell Biology and Lab (4) or Microbiology and Lab (5 Will satisfy science elective requirement. Select up to 9 hours from these options or CHEM 2219 Organic Chemistry Lab.	8
ITBU 203	Intro to Application Development		3		COMP SCI 1500 eneral Education Require	Computational Problem Solving	3
	6 hours Hu	umanities and F navioral and So TORY 1200, 13	Fine Ar ocial So 300, 13	ts from at le ciences from 310, or POL	•	and lines.	
	S			ties and Fi	ne Arts specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century): British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	or	6	ar louds (we	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
					l Sciences		
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		from a	at least two	specific disciplines. HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	No free electives applied to the degree.		0			Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	2	34 26 60			Group 2 Major Requirements Group 1 Core Requirements  Total Hours*  *S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.	38 26 64

	Civil Enginee	ring Gro	oup 2 Major Requ	uirements	
	Missouri Baptist University	9	Semester .	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as 6en Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 123	Geology and Earth Science	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the opti 6 hours Human	ons listed in each nities and Fine Ar oral and Social So Y 1200, 1300, 13	•	clude s and olines.	
	Sele		ties and Fine Arts at least two specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 or ENGLISH 1222 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 American 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
	Colo		and Social Sciences		
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	ct 6 nours from	at least two specific disciplines.  HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			rts, and Social Sciences elect 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 Tota	0 26 26 Il Hours 52		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 26 52

	Computer Eng	ineering G	roup 2 Major R	equirements		
	Missouri Baptist University	Ser	nester	Missouri S&T		
COMM 103	Speech Communications	3	SPMS 1185	Principles of Speech		3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement.  General Chemistry I and Lab		5
ITBU 203	Intro to Application Development	3	COMP SCI 1500	Computational Problem Solving		3
CHEM 313 or BIOL 423 or BIOL 343	Organic Chemistry I or Cell Biology or Genetics	3	CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3) Satisfies a required engineering/science elective.		3
MATH 353	Linear Algebra	3	MATH 3108	Linear Algebra Satisfies a required math elective.		3
	·		nces General Education Requ	irements		
	6 hours H	umanities and Fine Arts f havioral and Social Scien TORY 1200, 1300, 1310,	•	s and iplines.		
	,		s and Fine Arts east two specific disciplines.			
ENGL 353A or ENGL 353B or ENGL 333B or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III ((1945-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music  "statisfies the State of Missouri government requirement.	or 6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
	datalies the state of missouri government requirement.	Behavioral an	d Social Sciences	Cattories the State of missouri government requirement.		
	•	Select 6 hours from at le	east two specific disciplines.			
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		6
			and Social Sciences			
ENGL 123	College Composition II	3	t 3 hours. ENGLISH 1160	Writing and Research		3
Electives	Maximum Free Electives	3	Electives	Maximum Free Electives		3
	Group 2 Major Requirements	35	LIGOUTOG	Group 2 Major Requirements		35
	Group 1 Core Requirements	26 Total Hours 61		Group 1 Core Requirements  *S&T advisor permission is required to transfer more than 68 credits to Computer Engineering degree.	Total Hours* oward the S&T	26 61

	Electrical Engi	neering	g Grou	p 2 Major R	equirements	
	Missouri Baptist University		Semeste	r	Missouri S&T	
COMM 103	Speech Communications	3		SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	Applies to degree as Gen Ed Communication requirement.  General Chemistry I and Lab	5
ITBU 203	Intro to Application Development	3		COMP SCI 1500	Computational Problem Solving	3
CHEM 313 or BIOL 423 or BIOL 343	Organic Chemistry I or Cell Biology or Genetics	3		CHEM 2210 or BIO SCI 2213 or BIO SCI 2223	Organic Chemistry I (3) or Cell Biology (3) or General Genetics (3) Satisfies a required engineering/science elective.	3
MATH 353	Linear Algebra	3		MATH 3108	Linear Algebra	3
	From the 6 hours Hu	options listed in Imanities and Fin avioral and Socia FORY 1200, 130	each group be e Arts from at I al Sciences from 0, 1310, or PO		nclude es and ciplines.	
			anities and F			
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) of British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III ((1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.		om at least tw	o specific disciplines. ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
	c		oral and Soci			
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	elect 6 nours m	om at least tw	o specific disciplines. HISTORY 21/10 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200° or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
		Humanities	s, Arts, and S Select 3 hou	ocial Sciences		
ENGL 123	College Composition II	3	Select 3 not	ENGLISH 1160	Writing and Research	3
Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements	6 38 26 Total Hours 64		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 38 26 64

	Engineering Ma	nagement (	Group 2 Major	Requirements		
	Missouri Baptist University	Sem	ester	Missouri S&T		_
COMM 103	Speech Communications	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.		3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab		5
	From th	e options listed in each gr Humanities and Fine Arts fro ehavioral and Social Science	ces General Education Requipment below, select 15 hours to inour at least two specific discipline tes from at least two specific discorpropers or POL SCI 1200 to satisfy the	clude s and iplines.		
		Humanities	and Fine Arts	•		
		Select 6 hours from at lea	ast two specific disciplines.			
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333C or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	/) or 6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			Social Sciences			
DOV 0 400		•	cific disciplines to include PSYC			
PSYC 133	General Psychology	3	PSYCH 1101	General Psychology Required		3
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requi	3	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.		3
		, ,	and Social Sciences			
ENGL 123	College Composition II	Select 3	3 hours. ENGLISH 1160	Writing and Research		3
LINGL 123						
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements	0 23 26 Total Hours 49	Electives	Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements  *S&T advisor permission is required to transfer more than 61 credits to Engineering Management degree.	Total Hours*	0 23 26 61

	Environmental Eng	gineer	ing Gr	oup 2 Major	Requirements	
	Missouri Baptist University		Semeste	<u>r</u>	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
PHYS 123	Geology and Earth Science	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II	3		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 103, 101 or BIOL 113, 111	Intro to Biology and Lab or General Biology I and Lab	4		BIO SCI 1113, 1219*	General Biology (3) and Lab* (1) *The lab is not a degree requirement, transfers as general elective credit.	3
		nities and Fir 3 hours B RY 1200, 130	ne Arts from at I ehavioral and S 0, 1310, or PO	L SCI 1200 to satisfy the St	and	
	Sele		nanities and F	ine Arts o specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
		Behavi	oral and Social Select 3 hou			
CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3		PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	27			Group 2 Major Requirements	26
	Group 1 Core Requirements Tota	26 al Hours 53			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 52

	Geological Engin	eering Gr	oup 2 Major R	Requirements	
	Missouri Baptist University		<u>ester</u>	Missouri S&T	
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
ITBU 203	Intro to Application Development	3	COMP SCI 1500 GEO ENG 1150	Computational Problem Solving	3
PHYS 123	Geology and Earth Science	3	(GEOLOGY 1110)	Physical and Environmental Geology	3
	From the opti 6 hours Humar	ons listed in each gro lities and Fine Arts fro ral and Social Science	es General Education Requi oup below, select 15 hours to in m at least two specific disciplines as from at least two specific disci or POL SCI 1200 to satisfy the	clude s and plines.	
	Selec		and Fine Arts ast two specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music **Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			Social Sciences		
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language "Satisfies the State of Missouri government requirement.	6	ust two specific disciplines.  HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
			and Social Sciences 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	art, 3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Tota	0 26 26 1 Hours 52		Maximum Free Electives Group 2 Major Requirements Group 1 Core Requirements  Total Hours*  *S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	0 26 26 52

	Mechanical Engin	eering	Group 2 Major R	equirements	
Missouri Baptist University			<u>Semester</u>	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
MATH 353	Linear Algebra	3	MATH 3108	Linear Algebra I Satisfies the Advanced Math/Statistics elective requirement.	3
	From the optior 6 hours Humanit	is listed in ea es and Fine A I and Social S	Sciences General Education Require ach group below, select 15 hours to inclu- Arts from at least two specific disciplines a Sciences from at least two specific discipli 1310, or POL SCI 1200 to satisfy the St	ude and ines.	
			nities and Fine Arts		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333C or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	Select  British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature II (Colonial America t 1865 or American Literature III (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History I* or Art Appreciation of Music Satisfies the State of Missouri government requirement.	6 hours from	at least two specific disciplines.  ENGLISH 1211 or  ENGLISH 1212 or  ENGLISH 1221 or  ENGLISH 1222 or  ENGLISH 1222 or  ENGLISH 1222 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 American 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
	Satisfies the state of missouri government requirement.	Behaviora	al and Social Sciences	Causiles the State of Missouri government requirement.	
		6 hours from	at least two specific disciplines.		
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	н		Arts, and Social Sciences Select 3 hours.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, ar 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.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements Total I	26 26 Hours 52		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.	26 26 52

	Metallurgical Eng	ineeri	ng Gro	up 2 Major	Requirements	
	Missouri Baptist University		Semester	•	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 143	General Chemistry II	3		CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2)  *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
CHEM 313	Organic Chemistry I	3		CHEM 2210	Organic Chemistry I Not specifically required for the degree but will satisfy out-of-department technical elective requirement	3
	From the op 6 hours Hum 6 hours Behav	otions listed in anities and Find vioral and Soc	n each group be ne Arts from at le ial Sciences fror	eneral Education Requelow, select 15 hours to ineast two specific discipline at least two specific disc	iclude is and iplines.	
	*At least one course must be selected from HISTO		nanities and F	•	State of Missouri government requirement.	
	Se			specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III ((1945-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			oral and Socia			
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or	ect 6 hours fi	rom at least two	o specific disciplines. HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 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	6
Foreign Language	Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.			Foreign Language	Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	
		Humanitie	s, Arts, and S	ocial Sciences		
			Select 3 hou	rs.		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any histor music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	y, 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 To	32 26 tal Hours 58	6		Group 2 Major Requirements Group 1 Core Requirements  Total Hours*  *\$&T advisor permission is required to transfer more than 68 credits toward the \$&T Metallurgical Engineering degree.	32 26 58

	Mining Engine	ering Gro	up 2 Major Rec	quirements	
	Missouri Baptist University	<u>Sem</u>	<u>ester</u>	Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHYS 123	Geology and Earth Science	3	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the op 6 hours Hum	otions listed in each gro panities and Fine Arts fro vioral and Social Science	ses General Education Requipup below, select 12 hours to income at least two specific disciplines from at least two specific discipor POL SCI 1200 to satisfy the 5 properties of the selection o	clude s and plines.	
		Humanities a	and Fine Arts		
			ast two specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History I* or Art Appreciation or Appreciation of Music "Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
			Social Sciences		
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	ect 6 hours from at lea	ast two specific disciplines.  HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements Group 1 Core Requirements	23 26 otal Hours 49		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.	23 26 49

	Nuclear Engine	ering	Group	2 Major Red	quirements	
	Missouri Baptist University		Semester		Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as 6m Ed Communication requirement.	3
CHEM 133, 132 MATH 353	General Chemistry I and Lab Linear Algebra	5 3		CHEM 1310, 1319 MATH 3108	General Chemistry I and Lab Linear Algebra	5 3
	From the op 6 hours Huma	tions listed ir anities and Fir ioral and Soci	n each group be ne Arts from at le ial Sciences fron	eneral Education Requirelow, select 15 hours to include ast two specific disciplines at least two specific disciplines at least two specific disciplines at least two specific disciplines are the SCI 1200 to satisfy the SCI	lude and lines.	
	At least one course must be selected from more		manities and F	•	nate of missouri government requirement.	
	Sele			specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History I* or Art Appreciation or Music *Satisfies the State of Missour government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1222 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 American 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
		Behavi	ioral and Socia	al Sciences		
	Sele	ect 6 hours fr	rom at least two	specific disciplines.		
ECON 123 or ECON 113	Microeconomics or Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
EDGE 203 or CPHI 213 or CPHI 203 or POLS 113* or PSYC 133 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Elementary or Intermediate Foreign Language *Satisfics the State of Missouri government requirement.	3		HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Elementary or Intermediate Foreign Language 'Satisfies the State of Missouri government requirement.	3
		Humanitie	es, Arts, and Se Select 3 hour	ocial Sciences		
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	v, 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 Group 2 Major Requirements Group 1 Core Requirements Tol	0 26 26 tal Hours 52	5 5		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 Nuclear Engineering degree.	0 26 26 52

	Petroleum Engine	ering	Grou	p 2 Major R	equirements	
	Missouri Baptist University		Semester		Missouri S&T	
ENGL 123 or COMM 103	College Composition II or Speech Communications	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech Applies to degree as 6en Ed Communication requirement.	3
CHEM 133, 132	General Chemistry I and Lab	5		CHEM 1310, 1319	General Chemistry I and Lab	5
ITBU 203	Intro to Application Development	3		COMP SCI 1500	Computational Problem Solving	3
PHYS 123	Geology and Earth Science	3		GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
	From the option: 6 hours Humanitie	s listed in e es and Fine and Social	ach group be Arts from at le Sciences fron	eneral Education Requi elow, select 15 hours to in- east two specific disciplines at least two specific disci L SCI 1200 to satisfy the	clude s and plines.	
	Select 6		nities and F	ine Arts specific disciplines.		
ENGL 353A or ENGL 353B or ENGL 333A or ENGL 333B or ENGL 333C or HIUS 213* or HIUS 223* or ARTS 153 or MUHL 153	British Literature I (Middle Ages-Early 17th Century) or British Literature II (Since the Restoration) or American Literature I (Colonial America t 1865 or American Literature II (1865-1945) or American Literature III (1945-Present) or United States History I* or United States History II* or Art Appreciation or Appreciation of Music *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1212 or ENGLISH 1222 or ENGLISH 1222 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 American 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
	Salart 6		al and Socia	al Sciences o specific disciplines.		
EDGE 203 or CPHI 213 or CPHI 203 or PPOLS 113* or PSYC 133 or ECON 123 or ECON 113 or Foreign Language	Intro to World Geography or Intro to Philosophy or Intro to Logic or Federal Government* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6		HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government*or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
	Hı		Arts, and So Select 3 hour	ocial Sciences rs.		
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
	No free electives applied to the degree. Group 2 Major Requirements Group 1 Core Requirements Total H	0 29 26 lours 55			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 29 26 55