Southwest Baptist University — Missouri S&T

General Engineering

Transfer Guide Effective as of Fall 2026

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.

Southwest Baptist University		Semester	Missouri S&T		
MAT 1195	Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.	4
MAT 2255	Calculus II	4	MATH 1215	Calculus II Grade of C or better is required.	4
MAT 2263	Calculus III	3	MATH 2222	Calculus III Grade of C or better is required.	4
MAT 3363	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHY 2214, 2211	University Physics I and Lab	5	PHYSICS 1135	Engineering Physics I Grade of C or better is required.	4
PHY 2224, 2221	University Physics II and Lab	5	PHYSICS 2135	Engineering Physics II Grade of C or better is required.	4
ENG 1113	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
	Total Hours	28		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
Biomedical Engineering - 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
Semiconductor 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 2026.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.

Aerospace Engineering Group 2 Major Requirements

Southwest Baptist University		Semester	Missouri S&T		Semester
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
MAT 3323 or MAT 3343	Linear Algebra or Probability and Statistics	3	MATH 3108 or STAT 3115*	Linear Algebra I or Applied Engineering Statistics* *STAT 3115 will be substituted for STAT 3113. 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
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	31		Group 2 Major Requirements	32
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	59		Total Hours*	58
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Aerospace Engineering degree.	

Architectural Engineering Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 3 hours Humanities and Fine Arts and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 3 hours.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	3
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines, to include HISTORY 1200.					
HIS 1123*	**Intro to World Civilization II*** ***Satisfies the State of Missouri government requirement.**	3	**HISTORY 1200***	**Modern Western Civilization*** ***Satisfies the State of Missouri Government requirement.**	3
POL 1113* or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	**American Government and Politics*** 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	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
Humanities, 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	28		Group 2 Major Requirements	28
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	56		Total Hours*	54
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Architectural Engineering degree.	

Biomedical Engineering-Biomanufacturing
Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
COM 1103	Fundamentals of Speech Communication	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
CHE 3304	Organic Chemistry I	4	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHE 3314 or BIO 1003, 1001 or BIO 3323	Organic Chemistry II (4) or Principles of Biology and Lab (4) or Genetics (3)	4	CHEM 2220, 2229 or BIO SCI 1113, 1219 or BIO SCI 2223	Organic Chemistry II and Lab or General Biology and Lab or General Genetics Applies to degree as Track Elective.	4
BIO 2204	Human Anatomy and Physiology I		BIO SCI 3333, 3359	Anatomy and Physiology I and Lab	4
CIS 1033	Foundations of Computer Science	3	COMP SCI 1500	Computational Problem Solving	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 3 hours Behavioral and Social Sciences. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.				
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 3 hours.				
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3
	Humanities, Arts, and Social Sciences ENGLISH 3560 required.				
ENG 4003	Technical Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	34		Group 2 Major Requirements	38
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	62		Total Hours*	64
				*S&T advisor permission is required to transfer more than 69 credit hours toward the degree.	

Biomedical Engineering-Biomaterials
Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
COM 1103	Fundamentals of Speech Communication	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
CHE 3304	Organic Chemistry I	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2219 Lab applies to the degree as a Track Elective (non-engineering).	4
CHE 3314	Organic Chemistry II	4	CHEM 2220, 2229*	Organic Chemistry II and Lab* CHEM 2229 Lab applies to the degree as a Track Elective (non-engineering).	4
BIO 1003, 1001	Principles of Biology and Lab	4	BIO SCI 1113*, 1219*	General Biology* and Lab* *Applies to degree as Track Elective (Non-engineering).	4
BIO 2204	Human Anatomy and Physiology I	4	BIO SCI 3333, 3359	Human Anatomy and Physiology I and Lab	4
CIS 1033	Foundations of Computer Science	3	COMP SCI 1500	Computational Problem Solving	3
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 3 hours Behavioral and Social Sciences. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.				
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 3 hours.				
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3
	Humanities, Arts, and Social Sciences ENGLISH 3560 required.				
ENG 4003	Technical Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	45		Group 2 Major Requirements	45
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	73		Total Hours*	71

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Biomedical Engineering degree.

Ceramic Engineering Group 2 Major Requirements

	Southwest Baptist University		Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
PHY 3233	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics* or any statistics course 3000-level or higher. Satisfies statistics elective requirement. *STAT 3115 will be substituted for this requirement.	3
PHY 3363	Modern Physics	3		PHYS 2305	Intro to Modern Physics	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	Humanities, 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
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	38			Group 2 Major Requirements	38
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	66			Total Hours*	64
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	

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

	Southwest Baptist University	Semester		Missouri S&T	
COM 1103	Fundamentals of Speech Communication	3	SP&MS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
CHE 3304	Organic Chemistry I	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* *CHEM 2210 is a degree requirement. CHEM 2219 applies to the degree as 1 of 9 required science elective credits See note below .	4
CHE 3314 or BIO 2213	Organic Chemistry II (4) or Intro to Microbiology (4) Select up to 8 hours.	8	CHEM 2220, 2229* or BIO SCI 3313, 3319	Organic Chemistry II (3) or Microbiology and Lab (5) Satisfies 8 of the 9 required science elective credits. Select up to 8 hours from these options. Satisfies 8 of the 9 required science elective credits. *CHEM 2229 is not an S&T degree requirement, will transfer as general elective credit.	8
CIS 1033	Foundations of Computer Science	3	COMP SCI 1500	Computational Problem Solving	3
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.				
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.				
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	Humanities, Arts, and Social Sciences ENGLISH 3560 required.				
ENG 4003	Technical Writing	3	ENGLISH 3560	Technical Writing	3
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	44		Group 2 Major Requirements	44
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	72		Total Hours*	70

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Chemical Engineering degree.

Civil Engineering Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics *Will be substituted for STAT 3113.	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.				
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.				
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	Humanities, 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	31		Group 2 Major Requirements	31
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	59		Total Hours*	70
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Civil Engineering degree.	

Computer Engineering Group 2 Major Requirements

	Southwest Baptist University		Semester		Missouri S&T	
COM 1103	Fundamentals of Speech Communication	3		SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
PHY 3233 and PHY 4233 BOTH of the courses above or ONE of the courses below. OR PHY 3363 or CHE 3304 or BIO 3324	Statics (3) and Dynamics (3) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Modern Physics I (3) Organic Chemistry I (4) or Genetics (4)	3		CIV ENG 2200 and MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR PHYSICS 2311 or CHEM 2210 or BIO SCI 2223	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Modern Physics I (3) Organic Chemistry I (4) or General Genetics (3)	3
MAT 3323	Linear Algebra	3		MATH 3108	Linear Algebra	3
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3117.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, Arts, and Social Sciences Select 3 hours.						
ENG 2213 or ENG 4003	English Composition II or Technical Writing	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Electives	Maximum Free Electives	3		Electives	Maximum Free Electives	3
	Group 2 Major Requirements	37			Group 2 Major Requirements	38
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	65			Total Hours*	64

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Computer Engineering degree.

Electrical Engineering Group 2 Major Requirements

Southwest Baptist University			Semester	Missouri S&T		
COM 1103	Fundamentals of Speech Communication	3		SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
PHY 3233 and PHY 4233 BOTH of the courses above or ONE of the courses below. OR PHY 3363 or CHE 3304 or BIO 3324	Statics (3) and Dynamics (3) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Modern Physics I (3) Organic Chemistry I (4) or Genetics (4)	3		CIV ENG 2200 and MECH ENG 2350 BOTH of the courses above or ONE of the courses below. OR PHYSICS 2311 or CHEM 2210 or BIO SCI 2223	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (3) Both courses above combined or any one of the following courses will satisfy a required engineering science elective. OR Modern Physics I (3) Organic Chemistry I (4) or General Genetics (3)	3
MAT 3323	Linear Algebra	3		MATH 3108	Linear Algebra	3
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3117.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, Arts, and Social Sciences Select 3 hours.						
ENG 2213 or ENG 4003	English Composition II or Technical Writing	3		ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Electives	Maximum Free Electives	6		Electives	Maximum Free Electives	6
	Group 2 Major Requirements	40			Group 2 Major Requirements	41
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	68			Total Hours*	67
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Electrical Engineering degree.	

Engineering Management Group 2 Major Requirements

Southwest Baptist University		Semester	Missouri S&T		
COM 1103	Fundamentals of Speech Communication	3	SPMS 1185	Principles of Speech Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include PSYCH 1101.					
PSY 1013	General Psychology	3	PSYCH 1101	General Psychology Required	3
HIS 1113 or **HIS 1123*** or **POL 1113*** or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** 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
Humanities, Arts, and Social Sciences Select 3 hours.					
ENG 2213 or ENG 4003	English Composition II or Technical Writing	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	31		Group 2 Major Requirements	31
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	59		Total Hours*	61

*S&T advisor permission is required to transfer more than 61 credits toward the S&T Engineering Management degree.

Environmental Engineering Group 2 Major Requirements

Southwest Baptist University		Semester	Missouri S&T		Semester
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	General Chemistry II and Lab	4	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
BIO 1003, 1001	Principles of Biology 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
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, or 1310 to satisfy the State of Missouri government requirement and a degree-specific gen ed requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines. At least one course in either the HFA or the BSS (below) section must be selected from HISTORY 1200, 1300, or 1310.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.. At least one course in either the HFA (above) or the BSS section must be selected from HISTORY 1200, 1300, or 1310.					
HIS 1123* or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	**Intro to World Civilization II*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	**HISTORY 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	**Modern Western Civilization*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement and a degree-specific gen ed requirement.**	6
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	36		Group 2 Major Requirements	34
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	64		Total Hours*	60
				*S&T advisor permission is required to transfer more than 69 credits toward the S&T Environmental Engineering degree.	

Geological Engineering Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
ENG 4003	Technical Writing	3	ENGLISH 3560	Technical Writing Applies to degree as Gen Ed Communication requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3	MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics* *Will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	31		Group 2 Major Requirements	31
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	59		Total Hours*	64
				*S&T advisor permission is required to transfer more than 65 credits toward the S&T Geological Engineering degree.	

Mechanical Engineering Group 2 Major Requirements

Southwest Baptist University		Semester	Missouri S&T		
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
PHY 3233	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
MAT 3323 or MAT 3343	Linear Algebra or Probability and Statistics	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics Satisfies the Advanced Math/Statistics elective requirement. *STAT 3115 will be substituted for STAT 3113.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, 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
	No free electives applied to the degree.	0		Maximum Free Electives	0
	Group 2 Major Requirements	28		Group 2 Major Requirements	29
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	56		Total Hours*	55
				*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mechanical Engineering degree.	

Metallurgical Engineering Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	Semester
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics* *Will be substituted for the STAT 3113.	3
PHY 3233	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
CHE 3304 or PHY 3363	Organic Chemistry I (4) or Modern Physics (3)	3		CHEM 2210 or PHYSICS 2305	Organic Chemistry I (4) or Intro to Modern Physics (3) Not specifically required for the degree but will satisfy out-of-department technical elective requirement	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, 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
	No free electives applied to the degree.	3			Maximum Free Electives	0
	Group 2 Major Requirements	41			Group 2 Major Requirements	38
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	69			Total Hours*	68
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Metallurgical Engineering degree.	

Mining Engineering Group 2 Major Requirements

	Southwest Baptist University		Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics* *Will be substituted for the STAT 3113.	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 3233	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 12 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	28			Group 2 Major Requirements	28
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	56			Total Hours*	54

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Mining Engineering degree.

Nuclear Engineering Group 2 Major Requirements

	Southwest Baptist University		Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
MAT 3323	Linear Algebra	3		MATH 3108	Linear Algebra I	3
PHY 3233	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics *Will be substituted for the statistics requirement.	3
PHY 3363	Modern Physics	3		PHYSICS 2305	Intro to Modern Physics	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines to include either ECON 1100 or 1200.					
ECO 2023 or ECO 2033	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government***or General Psychology or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	3
	Humanities, 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	34			Group 2 Major Requirements	35
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	62			Total Hours*	61

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Nuclear Engineering degree.

Petroleum Engineering Group 2 Major Requirements

Southwest Baptist University			Semester	Missouri S&T		
ENG 2213 or ENG 4003	English Composition II or Technical Writing	3		ENGLISH 3560 or ENGLISH 1160	Technical Writing (preferred) or Writing and Research Applies to degree as Gen Ed Communications requirement.	3
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310*, 1319	General Chemistry I and Lab *CHEM 1310 will be substituted for CHEM 1305.	5
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
PHY 3233	Statics	3		CIV ENG 2200	Engineering Mechanics-Statics	3
PHY 4233	Dynamics	3		MECH ENG 2350	Engineering Mechanics-Dynamics	2
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics *Will be substituted for the statistics requirement.	3
Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**						
Humanities and Fine Arts Select 6 hours from at least two specific disciplines.						
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.						
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
Humanities, 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
	No free electives applied to the degree.	0			Maximum Free Electives	0
	Group 2 Major Requirements	38			Group 2 Major Requirements	39
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	66			Total Hours*	65

*S&T advisor permission is required to transfer more than 69 credits toward the S&T Petroleum Engineering degree.

Semiconductor Engineering-Device Engineering Emphasis
Group 2 Major Requirements

	Southwest Baptist University		Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4		CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
MAT 3343	Probability and Statistics	3		STAT 3115*	Engineering Statistics *Will be substituted for STAT 3117.	3
CIS 1033	Foundations of Computer Science	3		COMP SCI 1500	Computational Problem Solving	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**					
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.					
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.					
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6		HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	Humanities, 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	3			Maximum Free Electives	3
	Group 2 Major Requirements	35			Group 2 Major Requirements	35
	Group 1 Core Requirements	28			Group 1 Core Requirements	26
	Total Hours	63			Total Hours*	61
					*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.	

Semiconductor Engineering-Process Engineering Emphasis
Group 2 Major Requirements

	Southwest Baptist University	Semester		Missouri S&T	
ENG 2213 or COM 1103 or ENG 4003	English Composition II or Fundamentals of Speech Communication or Technical Writing	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
CHEM 1113, 1111	General Chemistry I and Lab	4	CHEM 1310, 1319	General Chemistry I and Lab	5
CHE 1123, 1121	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
MAT 3343	Probability and Statistics	3	STAT 3115*	Engineering Statistics *Will be substituted for STAT 3117.	3
CIS 1033	Foundations of Computer Science	3	COMP SCI 1500	Computational Problem Solving	3
	Humanities, Arts, and Social Sciences General Education Requirements From the options listed in each group below, select 15 hours to include 6 hours Humanities and Fine Arts from at least two specific disciplines and 6 hours Behavioral and Social Sciences from at least two specific disciplines. ***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**				
	Humanities and Fine Arts Select 6 hours from at least two specific disciplines.				
ENG 3233 or ENG 3313 or ENG 3323 or **HIS 2213*** or **HIS 2223*** or ART 1013 or FAR 1023 or THR 1033 or Literature	Medieval/Renaissance Literature or American Literature I or American Literature II or **History of US 1492-1865*** or **History of US 1865-Present*** or Intro to Art or Intro to Music or Intro to Theatre or Any literature with prerequisite of no more than English Composition I. ***Satisfies the State of Missouri government requirement.**	6	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1222 or **HISTORY 1300*** or **HISTORY 1310*** or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or American Literature: 1865 to Present or **American History to 1877*** or **American History Since 1877*** or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. ***Satisfies the State of Missouri government requirement.**	6
	Behavioral and Social Sciences Select 6 hours from at least two specific disciplines.				
HIS 1113 or **HIS 1123*** or **POL 1113*** or PSY 1013 or ECO 2023 or ECO 2033 or Foreign Language	Intro to World Civilization I or **Intro to World Civilization II*** or **American Government and Politics*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6	HISTORY 1100 or **HISTORY 1200*** or **POL SCI 1200*** or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or **Modern Western Civilization*** or **American Government*** or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language ***Satisfies the State of Missouri government requirement.**	6
	Humanities, 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	3		Maximum Free Electives	3
	Group 2 Major Requirements	35		Group 2 Major Requirements	35
	Group 1 Core Requirements	28		Group 1 Core Requirements	26
	Total Hours	63		Total Hours*	61

*S&T advisor permission is required to transfer more than 68 credits toward the S&T Ceramic Engineering degree.