

Ouachita Baptist University — Missouri S&T

General Engineering Transfer Guide

Effective as of Fall 2023

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

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.

<u>Ouachita Baptist University</u>			<u>Semester</u>	<u>Missouri S&T</u>			
MATH 2014	Calculus I	4		MATH 1214	Calculus I	4	
MATH 2024	Calculus II	4		MATH 1215	Calculus II	4	
MATH 3034	Calculus III	4		MATH 2222	Calculus III	4	
MATH 3043	Differential Equations	3		MATH 3304	Elementary Differential Equations	3	
PHYS 2054 and PHYS 2064 and PHYS 2073	University Physics I and University Physics II and University Physics III	11		PHYSICS 1135 and PHYS 2135	Engineering Physics I and Engineering Physics II <small>The combination of OBU PHYS 2054, 2064, and 2073 is equivalent to the combination of S&T PHYSICS 1135 and 2135. All courses must be taken to receive equivalent credit. Grade of C or better in all courses is required.</small>	8	
CHEM 1004	General Chemistry I	4		CHEM 1310, 1319	General Chemistry I and Lab	5	
<i>PHYS 1123</i>	<i>Intro to Physics and Engineering pending evaluation</i>	<i>1</i>		<i>FR ENG 1100</i>	<i>Study and Careers in Engineering and Computing</i>	<i>1</i>	
CORE 1043	Composition I	3		ENGLISH 1120	Exposition and Argumentation	3	
ECON 2023 or ECON 2013	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
Total Hours			37	Total Hours			35

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
Ceramic Engineering
Chemical Engineering
Chemical Engineering/Biochemistry Emphasis
Civil Engineering
Computer Engineering
Electrical Engineering

Engineering Management
Environmental Engineering
Geological Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering
Nuclear Engineering
Petroleum Engineering

Engineering Major Requirements are detailed on the following pages.

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

Humanities/Social Science (HSS) Electives: HSS electives may include any art, English and technical communication, etymology, foreign language, music, philosophy, speech and media studies, or theatre. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions. See Missouri S&T online catalog at <https://catalog.mst.edu/undergraduate/degreeprogramsandcourses/> for more information.

Aerospace Engineering Group 2 Major Requirements

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
PHYS 3124	Electrical Circuits	4	EE 2800	Circuit Analysis I	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3093 or MATH 3063	Linear Algebra or Probability and Statistics	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Comp Sci elective requirement.)</small>	3
	Literature Elective	3		Literature Elective	3
	Ethics Elective	3		Ethics Elective <small>Engineering, business, bio, social or other ethics approved by advisor.</small>	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	62		Total Hours*	59

*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

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 2003 or HIST 2013	United States History to 1877 or United States History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3113.)</small>	3
HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3	HSS Elective	Humanities/Social Science Elective: history, economics, political science, sociology, psychology, philosophy, fine art, literature, foreign language	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	15		Group 2 Major Requirements	15
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	52		Total Hours*	50

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

Ceramic Engineering Group 2 Major Requirements

<u>Quachita Baptist University</u>	<u>Semester</u>	<u>Missouri S&T</u>	
HIST 2003 or HIST 2013 or PSCI 2013	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	3
PHYS 2123	3	CIV ENG 2200	3
PHYS 3203	3	CIV ENG 2210	3
CHEM 3004	4	CHEM 2210	3
CHEM 1014	4	CHEM 1320	3
MATH 3063	3	STAT 3115	3
COMM 1003 or HSS Elective	3	SPMS 1185 or HSS Elective	3
Humanities/Social Science Elective	3	Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>	0	Maximum Free Electives	0
Group 2 Major Requirements	26	Group 2 Major Requirements	24
Group 1 Core Requirements	37	Group 1 Core Requirements	35
Total Hours	63	Total Hours*	59

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

Chemical Engineering Group 2 Major Requirements

<u>Quachita Baptist University</u>	<u>Semester</u>	<u>Missouri S&T</u>	
ENGL 3013	3	ENGLISH 3560	3
HIST 2003 or HIST 2013 or PSCI 2013	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	3
CHEM 1014	4	CHEM 1320	3
CHEM 3004	4	CHEM 2210, 2219*	4
CHEM 3104	4	CHEM 2220	3
CSCI 1044 or CSCI 1053 or CSCI 2103	3	CS 1500 or CS 1971,1981* or CS 1570, 1580* or CS 1972, 1982	3
MATH 3063	3	STAT 3115	3
COMM 1003	3	SP&MS 1185	3
Humanities/Social Science Elective	3	Humanities/Social Science Elective	3
<i>No free electives applied to the degree.</i>	0	Maximum Free Electives	0
Group 2 Major Requirements	30	Group 2 Major Requirements	28
Group 1 Core Requirements	37	Group 1 Core Requirements	35
Total Hours	67	Total Hours*	63

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

Chemical Engineering - Biochemical Engineering Emphasis Group 2 Major Requirements

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CHEM 1014	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHEM 3004	Organic Chemistry I	4	CHEM 2210, 2219*	Organic Chemistry I and Lab* <small>*The lab is not required for the degree, will partially satisfy 9-credit-hour science elective requirement..</small>	4
CHEM 3104	Organic Chemistry II	4	CHEM 2220	Organic Chemistry II <small>partially satisfy 9-credit-hour science elective requirement.</small>	Will 3
CSCI 1044 or CSCI 1053 or CSCI 2103	Programming I (4) or Programming II (4) or Data Structures (3)	3	CS 1500 or CS 1971,1981* or CS 1570, 1580* or CS 1972, 1982	Computational Problem Solving (3) or Intro to Programming Methodology and Lab* (C++) or Intro to Programming and Lab* (C++) (4) or Intro to MATLAB Programming and Lab <small>Course will be substituted for CS 1500.</small>	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
COMM 1003	Fundamentals of Public Speaking	3	SP&MS 1185	Principles of Speech	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	30		Group 2 Major Requirements	28
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	67		Total Hours*	63

*S&T advisor permission is required to transfer more than 70 credits toward the S&T Chemical/Biochemical Engineering degree.

Civil Engineering Group 2 Major Requirements

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	55		Total Hours*	53

*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

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003	Fundamentals of Public Speaking	3	SPMS 1185	Principles of Speech	3
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CSCI 1044 or CSCI 1053 or CSCI 2103	Programming I (4) or Programming II (4) or Data Structures (3)	3	CS 1500	Computational Problem Solving	3
PHYS 2123 or CHEM 3004	Statics (3) or Organic Chemistry I (4)	3	CIV ENG 2200 or CHEM 2210	Engineering Mechanics-Statics (3) or Chemistry I (4)	3
PHYS 3124	Electrical Circuits	4	EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MATH 3093	Linear Algebra	3	MATH 3108	Linear Algebra <small>(Will satisfy a required math elective.)</small>	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3117.)</small>	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	31		Group 2 Major Requirements	30
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	68		Total Hours*	65

*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

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003	Fundamentals of Public Speaking	3	SPMS 1185	Principles of Speech	3
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
CSCI 1044 or CSCI 1053 or CSCI 2103	Programming I (4) or Programming II (4) or Data Structures (3)	3	CS 1500	Computational Problem Solving	3
PHYS 2123 or CHEM 3004	Statics (3) or Organic Chemistry I (4) <small>Organic Chemistry I OR the combination of OBU Statics and S&T Dynamics will satisfy a required engineering science elective.</small>	3	CIV ENG 2200 and MECH ENG 2350 <small>(BOTH of the courses above or ONE of the courses below.)</small> OR CHEM 2210	Engineering Mechanics-Statics (3) and Engineering Mechanics-Dynamics (2) <small>(Both courses above combined or any one of the following courses will satisfy a required engineering science elective.)</small> OR Organic Chemistry I (3)	3
PHYS 3124	Electrical Circuits	3	EE 2100**	Circuits I **A passing grade on the Missouri S&T EE Advancement Exam I is required to receive credit for EE 2100.	3
MATH 3093	Linear Algebra	4	MATH 3108	Linear Algebra	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics <small>(Will be substituted for STAT 3117.)</small>	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	31		Group 2 Major Requirements	30
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	68		Total Hours*	65

*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

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
PSYC 1013	General Psychology	3	PSYCH 1101	General Psychology	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
COMM 1003	Fundamentals of Public Speaking	3	SPMS 1185	Principles of Speech	3
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
PHYS 3124	Electrical Circuits	4	EE 2800	Circuit Analysis I	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	3		Maximum Free Electives	3
	Group 2 Major Requirements	31		Group 2 Major Requirements	30
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	68		Total Hours*	65

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

Environmental Engineering Group 2 Major Requirements

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
HIST 2003 or HIST 2013	United States History to 1877 or United States History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
CHEM 1014	General Chemistry II	4	CHEM 1320	General Chemistry II	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics (Will be substituted for STAT 3113.)	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	22		Group 2 Major Requirements	21
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	59		Total Hours*	56

*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

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics <small>Applies to the degree as a required statistics elective.</small>	3
CHEM 1014 or CHEM 3004	General Chemistry II or Organic Chemistry I <small>or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement.</small>	4	CHEM 1320 or CHEM 2210	General Chemistry II or Organic Chemistry I <small>or any 3-hour course in chemistry, geochemistry, or biology. Satisfies chemistry/geochemistry elective requirement.</small>	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	62		Total Hours*	59

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

Mechanical Engineering Group 2 Major Requirements

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
PHYS 3124	Electrical Circuits	4	EE 2800	Circuit Analysis I	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3093 or MATH 3063	Linear Algebra or Probability and Statistics	3	MATH 3108 or STAT 3115	Linear Algebra I or Engineering Statistics <small>(Will satisfy the Advanced Math/Computer Science elective requirement.)</small>	3
	Literature Elective	3		Literature Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	25		Group 2 Major Requirements	24
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	62		Total Hours*	59

*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

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
CHEM 1014	General Chemistry II	4	CHEM 1320	General Chemistry II	3
CHEM 3004 or PHYS 3124	Organic Chemistry I (4) or Electrical Circuits (4)	3	CHEM 2210 or EE 2800	Organic Chemistry I (4) or Electrical Circuits (3)	3
				Not specifically required for the degree but will satisfy Out-of-Department Technical Elective Requirement.	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	5		Maximum Free Electives	3
	Group 2 Major Requirements	33		Group 2 Major Requirements	30
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	70		Total Hours*	65

*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

<u>Quachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
PHYS 2123	Statics	3	CIV ENG 2200*	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	21		Group 2 Major Requirements	21
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	58		Total Hours*	56

*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

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
COMM 1003 or ENGL 3013	Fundamentals of Public Speaking or Technical and Professional Writing	3	SPMS 1185 or ENGLISH 3560	Principles of Speech or Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
MATH 3093	Linear Algebra	3	MATH 3108	Linear Algebra	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
MATH 3063	Probability and Statistics	3	STAT 3115	Engineering Statistics	3
PHYS 3124	Electrical Circuits	4	EE 2800	Circuit Analysis I	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Maximum Free Electives	6		Maximum Free Electives	6
	Group 2 Major Requirements	34		Group 2 Major Requirements	33
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	71		Total Hours*	68

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

Petroleum Engineering Group 2 Major Requirements

<u>Ouachita Baptist University</u>		<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 3013	Technical and Professional Writing	3	ENGLISH 3560	Technical Writing	3
HIST 2003 or HIST 2013 or PSCI 2013	United States History to 1877 or United States History Since 1877 or American National Government	3	HISTORY 1300 or HISTORY 1310 or POL SCI 1200	American History to 1877 or American History since 1877 or American Government	3
PHYS 2123	Statics	3	CIV ENG 2200	Engineering Mechanics-Statics	3
PHYS 3203	Strength of Materials	3	CIV ENG 2210	Mechanics of Materials	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	Humanities/Social Science Elective	3		Humanities/Social Science Elective	3
	<i>No free electives applied to the degree.</i>	0		Maximum Free Electives	0
	Group 2 Major Requirements	18		Group 2 Major Requirements	18
	Group 1 Core Requirements	37		Group 1 Core Requirements	35
	Total Hours	55		Total Hours*	53

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