

Three Rivers College — Missouri S&T

Education BS

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 Emphasis/Focus Areas Take All Courses

Education students take all Group 1 - Core Requirements and Group 2 - Emphasis Area Requirements for major of choice.

<u>Three Rivers College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
ENGL 111	College Writing	3		ENGLISH 1120	Exposition and Argumentation	3
ENGL 112 or SCOM 110	Advanced College Writing or Public Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
PHIL 200	Intro to Philosophy	3		PHILOS 1105	Intro to Philosophy	3
GOVT 121 or HIST 122	National and State Government or World Civilization since the Renaissance	3		POL SCI 1200 or HISTORY 1200	American Government or Modern Western Civilization	3
EDUC 230	Foundations of Education	3		EDUC 1074	Education in a Diverse Society	3
EDUC 201	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1
EDUC 210	Educational Psychology	3		EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 243	Human Development Across the Life Span	3		PSYCH 3310	Developmental Psychology	3
EDUC 260	Education of the Exceptional Learner	3		EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
Total Hours			27	Total Hours		

Group 2 - Emphasis/Focus Area Requirements: Take All Courses for Emphasis/Focus of Choice

Middle School Teacher Education students take all Group 1 - Core Requirements (above) and Group 2 - Emphasis Area Requirements for chosen emphasis area from list below. See course requirements on following pages.

Early Childhood
Elementary Education STEM Focus
Middle School English Emphasis
Middle School Mathematics Emphasis
Middle School Science Emphasis
Middle School Social Sciences Emphasis
Secondary Teaching Art Emphasis
Secondary Teaching Computer Science Emphasis
Secondary Teaching General Science Emphasis
Secondary Teaching Spanish Emphasis

Emphasis Area Requirements are detailed on the following pages.

Early Childhood

Three Rivers College			Semester	Missouri S&T		
Degree Requirements						
It is recommended that AAT-track students prioritize coursework in this section and the Group 1 - Core Requirements section before completing any courses from the Additional Degree Requirements section. Students should consult closely with their community college/transfer school advisor to select coursework to total no more than the maximum of 61 transferable credits.						
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
HIST 111 or HIST 112 or HIST 121 or HIST 122 or	American History to 1877 or American History since 1877 or World Civilization to the Renaissance or World Civilization since the Renaissance or American	3		HISTORY 1300 or HISTORY 1310 or HISTORY 1100* or HISTORY 1200* or	American History to 1877 or American History since 1877 or Early Western Civilization or Modern Western Civilization or *Department will substitute HISTORY 1100 or 1200 for this requirement.	3
EDUC 250	Children's Literature	3		EDUC 3430	Diverse Literature for Children	3
Literature	Literature Elective	3		Literature	Literature Elective	3
PSYC 111	General Psychology	3	PSYCH 1101	General Psychology	3	
ARTS 123 or ARTS 110 or MUSC 123	History and Appreciation of Art or Intro to Art or History and Appreciation of Music	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Appreciation	3	
Additional Degree Requirements						
It is recommended that AAS or Certificate Program students who have completed the coursework below work closely with their community college/transfer school advisor to complete selected courses from the Recommended Transfer Coursework section and the Group 1 - Core Requirements section to total no more than the maximum of 61 transferable credits.						
ECD 202	Survey of Early Childhood Development and Education	3	EDUC 1055	Intro to Early Childhood Education	3	
ECD 126	Child Health, Safety, and Nutrition	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3	
ECD 245	Early Childhood Administration	3	EDUC 1820	Early Childhood Program Management	3	
	Group 2 Emphasis/Focus Area Requirements	34		Group 2 Emphasis/Focus Area Requirements	36	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	61		Total Hours*	61	
*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Early Childhood Emphasis Area.						
Professional Requirements for Teacher Education Program:						
Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .						

Elementary Education Focus

Three Rivers College			Semester	Missouri S&T		
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
HIST 121	World Civilization to the Renaissance	3		HISTORY 1100	Early Western Civilization	3
HIST 122	World Civilization since the Renaissance	3		HISTORY 1200	Modern Western Civilization	3
HIST 111 or	American History to 1877 or	3		HISTORY 1300 or	American History to 1877 or	3
HIST 112	American History since 1877			HISTORY 1310	American History since 1877	
ECON 212 or	Principles of Microeconomics or	3		ECON 1100 or	Principles of Microeconomics or	3
ECON 211	Principles of Macroeconomics			ECON 1200	Principles of Macroeconomics	
EDUC 250	Children's Literature	3		EDUC 3430	Diverse Literature for Children	3
PSYC 111	General Psychology	3		PSYCH 1101	General Psychology	3
ARTS 123 or	History and Appreciation of Art or			ART 1180 or	Art Appreciation or	
ARTS 110 or	Intro to Art or	3		MUSIC 1150	Music Appreciation	3
MUSC 123	History and Appreciation of Music					
	Group 2 Emphasis/Focus Area Requirements	31		Group 2 Emphasis/Focus Area Requirements	31	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	58		Total Hours*	56	
*S&T advisor permission is required to transfer more than 63 credits toward the S&T degree for the Elementary Emphasis Area.						
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .						

Middle School Language Arts Emphasis

Three Rivers College		Semester	Missouri S&T	
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics
ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video
HIST 121 or HIST 122 or HIST 111 or HIST 112	World Civilization to the Renaissance or World Civilization since the Renaissance or American History to 1877 or American History since 1877	3	HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
Literature	Literature Elective Any literature with prerequisite of no more than English Composition I.	3	Literature	Literature Elective Any literature with prerequisite of no more than ENGLISH 1120.
UL Literature	Upper Level Literature Elective	3	UL Literature	Upper Level Literature Elective
Humanities	Any philosophy, fine art, literature, foreign language	3	Humanities	Any philosophy, fine art, literature, foreign language
	Group 2 Emphasis/Focus Area Requirements	28		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	55		Total Hours*
				53
*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School English Emphasis Area.				
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .				

Middle School Mathematics Emphasis

Three Rivers College		Semester	Missouri S&T	
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.
		Select 6 hours from at least 2 disciplines.		
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.
MATH 153	Intermediate Algebra	3	MATH 1103	Fundamentals of Algebra
MATH 163	College Algebra for Calculus	3	MATH 1140	College Algebra
MATH 171	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I
MATH 271	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II
MATH 223	Probability and Statistics	3	STAT 1115	Statistics for the Social Sciences I
ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video
HIST 121 or HIST 122 or HIST 111 or HIST 112	World Civilization to the Renaissance or World Civilization since the Renaissance or American History to 1877 or American History since 1877	3	HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
Humanities	Any philosophy, fine art, literature, foreign language	3	Humanities	Any philosophy, fine art, literature, foreign language
	Group 2 Emphasis/Focus Area Requirements	38		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	65		Total Hours*
				61
*S&T advisor permission is required to transfer more than 60 credits toward the S&T degree for Middle School Math Emphasis Area.				
Professional Requirements for Teacher Education Program:				
Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .				

Middle School Science Emphasis

Three Rivers College			Semester	Missouri S&T		
BIOL 191	Biology I	4	BIOL 1213*, 1219	Principles of Biology and Lab *Will be substituted for BIO SCI 1113.	4	
BIOL 102	Environmental Science	4	BIO SCI 1173	Intro to Environmental Sciences	3	
PHYS 150	Environmental Geology MOTR GEOL 100	4	GEOLOGY 1110	Physical and Environmental Geology MOTR GEOL 100	3	
CHEM 121	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5	
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3	
MATH 223	Probability and Statistics	3	STAT 1115	Statistics for the Social Sciences I	3	
ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3	
HIST 121 or HIST 122 or HIST 111 or HIST 112	World Civilization to the Renaissance or World Civilization since the Renaissance or American History to 1877 or American History since 1877	3	HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877	3	
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
Humanities	Any philosophy, fine art, literature, foreign language	3	Humanities	Any philosophy, fine art, literature, foreign language	3	
	Group 2 Emphasis/Focus Area Requirements	34		Group 2 Emphasis/Focus Area Requirements	33	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	61		Total Hours*	58	
*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.						
Professional Requirements for Teacher Education Program:						
Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .						

Professional Requirements for Teacher Education Program:
Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

Middle School Social Sciences Emphasis

Three Rivers College			Semester	Missouri S&T		
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
HIST 121 or HIST 122	World Civilization to the Renaissance or World Civilization since the Renaissance	3		HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HIST 111 or HIST 112	American History to 1877 or American History since 1877	3		HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ARTS 123 or ARTS 110 or MUSC 123 or THEA 120	History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Humanities	Any philosophy, fine art, literature, foreign language	3		Humanities	Any philosophy, fine art, literature, foreign language	3
	Group 2 Emphasis/Focus Area Requirements	22			Group 2 Emphasis/Focus Area Requirements	22
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	49			Total Hours*	47
*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School Social Sciences Emphasis Area.						
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .						

Secondary Teaching Art Emphasis

Three Rivers College			Semester	Missouri S&T		
ARTS 131	Drawing I	2	ART 1120	Drawing I	3	
ARTS 233	Painting I	3	ART 1140	Painting I	3	
ARTS 110 or	Intro to Art or	3	ART 1180	Art Appreciation	3	
ARTS 123	History & Appreciation of Art					
BIOL 100 or	Survey of Biological Principles (3) MOTR BIOL 100 or	6	BIO SCI 1113 or	General Biology (3) MOTR BIOL 100 or	6	
BIOL 191* or	Biology I* (4) or		BIO SCI 1213, 1219*	Principles of Biology (3) and Lab* (1)		
CHEM 121* or	General Chemistry I* (4) or		CHEM 1310, 1319* or	General Chemistry I (4) and Lab* (1) or		
PHYS 211* or	General Physics I* (5) or		PHYSICS 1135* or	Engineering Physics*(4) or		
PHYS 150	Environmental Geology MOTR GEOL 100 (4)		GEOLOGY 1110*	Physical and Environmental Geology* MOTR GEOL 100 (3)		
	or higher science lecture			or higher science lecture		
	*Lab satisfies science lab requirement below.			*Lab satisfies science lab requirement below.		
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	
MATH 161 or	Mathematical Reasoning and Modeling or	3	MATH 1110 or	Mathematical Reasoning and Modeling or	3	
MATH 163 or	College Algebra for Calculus or		MATH 1140 or	College Algebra or		
MATH 223	Probability and Statistics		STAT 1115	Statistics for the Social Sciences I		
	or higher math or statistics			or higher math or statistics		
ENGL 231 or	English Literature to 1798 or	3	ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	3	
ENGL 232 or	English Literature since 1798 or		ENGLISH 1212 or	British Literature II: 1800 to Present		
ENGL 241 or	American Literature to 1870 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or		
ENGL 242 or	American Literature since 1870 or		ENGLISH 1222 or	American Literature: 1865 to Present or		
ENGL 221 or	World Literature to 1600 or		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or		
HIST 111* or	American History to 1877* or		HISTORY 1300* or	American History to 1877* or		
HIST 112* or	American History since 1877* or		HISTORY 1310* or	American History Since 1877* or		
MUSC 123 or	History and Appreciation of Music or	MUSIC 1150 or	Music Appreciation or			
THEA 120 or	History and Appreciation of Theatre or	THEATRE 1190 or	Theatre via Video or			
Literature	Any literature with prerequisite of no more than English Composition I.		Literature	Any literature with prerequisite of no more than ENGLISH 1120.		
	*Satisfies the State of Missouri government requirement.			*Satisfies the State of Missouri government requirement.		
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	
	Group 2 Emphasis/Focus Area Requirements	24		Group 2 Emphasis/Focus Area Requirements	25	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	51		Total Hours*	50	
*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.						
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/.						

Secondary Teaching Computer Science Emphasis

Three Rivers College		Semester	Missouri S&T	
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120 or Literature	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics
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.
	Group 2 Emphasis/Focus Area Requirements	19		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	46		Total Hours*
				44
*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.				
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/.				

Secondary Teaching General Science Emphasis

Three Rivers College			Semester	Missouri S&T	
BIOL 191	Biology I	4	BIOL 1213*, 1219	Principles of Biology and Lab *Will be substituted for BIO SCI 1113.	4
BIOL 102	Environmental Science	4	BIO SCI 1173	Intro to Environmental Sciences	3
PHYS 150	Environmental Geology MOTR GEOL 100	4	GEOLOGY 1110	Physical and Environmental Geology MOTR GEOL 100	3
CHEM 121	General Chemistry I	4	CHEM 1310, 1319	General Chemistry I and Lab	5
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120 or Literature	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
Group 2 Emphasis/Focus Area Requirements		25	Group 2 Emphasis/Focus Area Requirements		24
Group 1 Core Requirements		27	Group 1 Core Requirements		25
Total Hours		52	Total Hours*		49
*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.					
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .					

Secondary Teaching Spanish Emphasis

Three Rivers College			Semester	Missouri S&T		
SPAN 101	Elementary Spanish I	3		SPANISH 1101	Elementary Spanish I	3
SPAN 102	Elementary Spanish II	3		SPANISH 1102	Elementary Spanish II	3
SPAN 201	Intermediate Spanish I	3		SPANISH 1180	Intermediate Spanish	3
SPAN 202	Intermediate Spanish II	3		SPANISH 2110	Basic Spanish Conversation	3
MATH 161 or MATH 163 or MATH 223	Mathematical Reasoning and Modeling or College Algebra for Calculus or Probability and Statistics or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIOL 100 or BIOL 191* or CHEM 121* or PHYS 211* or PHYS 150	Survey of Biological Principles (3) MOTR BIOL 100 or Biology I* (4) or General Chemistry I* (4) or General Physics I* (5) or Environmental Geology MOTR GEOL 100 (4) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113 or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1135* or GEOLOGY 1110*	General Biology (3) MOTR BIOL 100 or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or Engineering Physics*(4) or Physical and Environmental Geology* MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
ENGL 231 or ENGL 232 or ENGL 241 or ENGL 242 or ENGL 221 or HIST 111* or HIST 112* or ARTS 123 or ARTS 110 or MUSC 123 or THEA 120 or Literature	English Literature to 1798 or English Literature since 1798 or American Literature to 1870 or American Literature since 1870 or World Literature to 1600 or American History to 1877* or American History since 1877* or History and Appreciation of Art or Intro to Art or History and Appreciation of Music or History and Appreciation of Theatre or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
	Group 2 Emphasis/Focus Area Requirements	28			Group 2 Emphasis/Focus Area Requirements	28
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	55			Total Hours*	53
				*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.		

Professional Requirements for Teacher Education Program:
Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.