

Mineral Area 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>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
ENG 1330	English Composition I	3		ENGLISH 1120	Exposition and Argumentation	3
ENG 1340 or	English Composition II or	3		ENGLISH 1160 or	Writing and Research or	3
ENG 1440	Public Speaking			SPMS 1185	Principles of Speech	
PHI 1400	Intro to Philosophy	3		PHILOS 1105	Intro to Philosophy (or other philosophy)	3
POS 1180 or	American Political Systems or	3		POL SCI 1200 or	American Government or	3
HIS 1130	Western Civilization II			HISTORY 1200	Modern Western Civilization	
EDU 2040	Foundations of Education	3		EDUC 1074	Education in a Diverse Society	3
EDU 2100	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1
EDU 2320	Educational Psychology	3		EDUC 2102 or	Educational Psychology	3
PSY 1250	Human Growth and Development	3		PSYCH 2300	Developmental Psychology	3
EDU 2500	Education of Exceptional Learner	3		PSYCH 3310	Education of the Exceptional Child or	3
				EDUC 2310 or	Psychology of the Exceptional Child	
				PSYCH 4310		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							
Mineral Area 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.							
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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	
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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	
GEO 1130	Regional World Geography	3		HISTORY 2110	World Regional Geography	3	
HIS 1230 or HIS 1240 or HIS 1130 or HIS 1140	American History I or American History II or Western Civilization I or Western Civilization II or	3		HISTORY 1300 or HISTORY 1310 or HISTORY 1100* or HISTORY 1200*	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	
ENG 2520	Children's Literature	3		EDUC 3430	Diverse Literature for Children	3	
Literature	Literature Elective	3		Literature	Literature Elective	3	
PSY 1130	General Psychology I	3		PSYCH 1101	General Psychology	3	
ART 1490 or MUS 1630	History of Art I or 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.							
ECE 1000	Intro to Early Childhood Education	3	EDUC 1055	Intro to Early Childhood Education	3		
ECE 1040	Early Childhood Health, Safety, Nutrition	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3		
EDU 2420	Org Mgt Early Childhood Programs	3	EDUC 1820	Early Childhood Program Management	3		
ECE 1020	Guidance Altern for young Children	3	EDUC 2440	Observation and Assessment of Young Children	3		
ECE 2040	Home, School and Family	3	EDUC 2401	School, Family, and Community Partnerships	3		
EDU 1300	Child Development	3	EDUC 2211	Child Development	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

<u>Mineral Area College</u>		<u>Semester</u>	<u>Missouri S&T</u>
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115
GEO 1130	Regional World Geography	3	HISTORY 2110
HIS 1130	Western Civilization I	3	HISTORY 1100
HIS 1140	Western Civilization II	3	HISTORY 1200
HIS 1230 or HIS 1240	American History I or American History II	3	HISTORY 1300 or HISTORY 1310
BUS 2940 or BUS 2930	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200
ENG 2520	Children's Literature	3	EDUC 3430
PSY 1130	General Psychology I	3	PSYCH 1101
ART 1490 or MUS 1630	History of Art I or Appreciation of Music	3	ART 1180 or MUSIC 1150
	Group 2 Emphasis/Focus Area Requirements	34	Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27	Group 1 Core Requirements
	Total Hours	61	Total Hours*
			59

*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

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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
CSC 1100	Programming Logic	3		COMP SCI 1500	Computational Problem Solving	3
ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
HIS 1130 or HIS 1140 or HIS 1230 or HIS 1240	Western Civilization I or Western Civilization II or American History I or American History II	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
BUS 2940 or BUS 2930	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
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.	3	
UL Literature	Upper Level Literature Elective	3	UL Literature	Upper Level Literature Elective	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	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 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

Mineral Area College		Semester	Missouri S&T	
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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.
MAT 1185	Fundamentals of Algebra	4	MATH 1103	Fundamentals of Algebra
MAT 1230	College Algebra	4	MATH 1140	College Algebra
MAT 1650	Analytical Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I
MAT 2150	Analytical Geometry and Calculus II	3	MATH 1215	Calculus II
CSC 1100	Programming Logic	3	COMP SCI 1500	Computational Problem Solving
MAT 1260	Elementary Statistics	3	STAT 1115	Statistics for the Social Sciences I
ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video
HIS 1130 or HIS 1140 or HIS 1230 or HIS 1240	Western Civilization I or Western Civilization II or American History I or American History II	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
BUS 2940 or BUS 2930	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	41		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	68		Total Hours*
				64
*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

Mineral Area College			Semester	Missouri S&T		
BIO 1150	General Biology	5		BIOL 1113, 1219	General Biology (3) and Lab (1)	4
BIO 1430	Environmental Science	3		BIO SCI 1173	Intro to Environmental Sciences	3
PHS 2420	Earth Science I MOTR GEOL 100	3		GEOLOGY 1110	Physical and Environmental Geology MOIR GEOL 100	3
PHS 1200 or PHS 1420	Intro to Astronomy (3) or College Physics I (4)	3		PHYSICS 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics I (4) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
PHS 1350	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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
MAT 1260	Elementary Statistics	3		STAT 1115	Statistics for the Social Sciences I	3
ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
HIS 1130 or HIS 1140 or HIS 1230 or HIS 1240	Western Civilization I or Western Civilization II or American History I or American History II	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
BUS 2940 or BUS 2930	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	37			Group 2 Emphasis/Focus Area Requirements	36
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	64			Total Hours*	61

*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/>.

Middle School Social Sciences Emphasis

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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
CSC 1100	Programming Logic	3		COMP SCI 1500	Computational Problem Solving	3
GEO 1130	Regional World Geography	3		HISTORY 2110	World Regional Geography	3
HIS 1130 or HIS 1140	Western Civilization I or Western Civilization II	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3	
HIS 1230 or HIS 1240	American History I or American History II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3	
ART 1490 or MUS 1630 or THE 1000	History of Art I or Appreciation of Music or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3	
BUS 2940 or BUS 2930	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	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 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

Mineral Area College			Semester	Missouri S&T		
ART 1130	Drawing I	3	Select 6 hours from at least 2 disciplines.	ART 1120	Drawing I	3
ART 1160	Painting I	3		ART 1140	Painting I	3
ART 149	History of Art I	3		ART 1180	Art Appreciation	3
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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	
ENG 2330 or ENG 2340 or ENG 2430 or ENG 2440 or HIS 1230* or HIS 1240* or MUS 1630 or THE 1000 or Literature	English Literature I or English Literature II or American Literature I or American Literature II or American History I* or American History II* or Appreciation of 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 1212 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 British Literature II: 1800 to Present 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	
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		16	Group 2 Emphasis/Focus Area Requirements		16	
Group 1 Core Requirements		27	Group 1 Core Requirements		25	
Total Hours		43	Total Hours*		41	
*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

Mineral Area College			Semester	Missouri S&T		
BUS 2100	Fundamentals of Management	3		BUS 1110	Intro to Management and Entrepreneurship	3
BUS 2050	Principles of Accounting II	3		BUS 2910	Business Law	3
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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
ENG 2330 or ENG 2340 or ENG 2430 or ENG 2440 or HIS 1230* or HIS 1240* or ART 1490 or MUS 1630 or THE 1000 or Literature	English Literature I or English Literature II or American Literature I or American Literature II or American History I* or American History II* or History of Art I or Appreciation of 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	Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 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 British Literature II: 1800 to Present 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 Understanding and Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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
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	25			Group 2 Emphasis/Focus Area Requirements	25
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	52			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 General Science Emphasis

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 1150	General Biology	5		BIO SCI 1113, 1219	General Biology and Lab	4
BIO 1430	Environmental Science	3		BIO SCI 1173	Intro to Environmental Sciences	3
PHS 1350	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
PHS 2420	Earth Science I MOTR GEOL 100	3		GEOLOGY 1110	Physical and Environmental Geology MOIR GEOL 100	3
PHS 1200	Intro to Astronomy	3		PHYSICS 1505	Introductory Astronomy	3
PHS 1420	College Physics I	4		PHYSICS 1145	College Physics I	4
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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
ENG 2330 or ENG 2340 or ENG 2430 or ENG 2440 or HIS 1230* or HIS 1240* or ART 1490 or MUS 1630 or THE 1000 or Literature	English Literature I or English Literature II or American Literature I or American Literature II or American History I* or American History II* or History of Art I or Appreciation of 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	Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 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 British Literature II: 1800 to Present 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 Understanding and 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		32		Group 2 Emphasis/Focus Area Requirements		31
Group 1 Core Requirements		27		Group 1 Core Requirements		25
Total Hours		59		Total Hours*		56
*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

Mineral Area College			Semester	Missouri S&T			
MFL 1370	Elementary Spanish I	3	Select 6 hours from at least 2 disciplines.	SPANISH 1101	Elementary Spanish I	3	
MFL 1470	Elementary Spanish II	3		SPANISH 1102	Elementary Spanish II	3	
MFL 2230	Intermediate Spanish I	3		SPANISH 1180	Intermediate Spanish	3	
MAT 1240 or MAT 1230 or MAT 1260	Quantitative Reasoning or College Algebra or Elementary 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	
BIO 1150* or BIO 1100 or PHS 1350* or PHS 1420* or PHS 1200 or PHS 2420	General Biology* (5) or Intro to Biological Science (3) or General Chemistry I* (5) or College Physics I* (4) or Intro to Astronomy (3) or Earth Science I MOTR GEOL 100 (3) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or BIO SCI 1113 or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1505 or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Biology (3) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Introductory Astronomy (3) 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	
ENG 2330 or ENG 2340 or ENG 2430 or ENG 2440 or HIS 1230* or HIS 1240* or ART 1490 or MUS 1630 or THE 1000 or Literature	English Literature I or English Literature II or American Literature I or American Literature II or American History I* or American History II* or History of Art I or Appreciation of 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		Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 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 British Literature II: 1800 to Present 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 Understanding and 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 1 Core Requirements		27			Group 1 Core Requirements		25
Total Hours		27			Total Hours*	25	
*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/ .							