

Mineral Area College — Missouri S&T
Education BS with Early Childhood, Elementary, or Middle School Teacher Education
 Transfer Guide Effective as of Fall 2025

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

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		ENG 1120	Exposition and Argumentation	3
ENG 1340	English Composition	3		ENG 1160	Writing and Research	3
ENG 1440	Public Speaking	3		SP&MS 1185	Principles of Speech	3
PHI 1400	Intro to Philosophy	3		PHILOS 1105	Intro to Philosophy (or other philosophy)	3
POS 1180	American Political Systems	3		POL SCI 1200	American Government	3
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 PSYCH 2300	Educational Psychology	3
PSY 1250	Human Growth and Development	3		PSYCH 3310	Developmental Psychology	3
EDU 2500	Education of Exceptional Learner	3		EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
Total Hours		30		Total Hours		28

**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

Middle School Teacher Education Emphasis Area Requirements are detailed on the following pages.

Humanities/Social Science (HSS) Electives: HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language. Missouri S&T approved HSS courses are listed at ugs.mst.edu. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions.

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	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab (5) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit. Department will substitute CHEM 1310, 1319 or GEOLOGY 1120 for this requirement.	3
MAT 1185 or MAT 1230	Fundamentals of Algebra or College Algebra or higher math	4	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra or higher math Department will substitute MATH 1103 for MATH 1140.	3
PHS1420 or PHS 1200	College Physics I (4) or Intro to Astronomy (3)	3	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	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* 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
ENG 2520	Children's Literature	3	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	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 Understanding and 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	31		Group 2 Emphasis/Focus Area Requirements	33
	Group 1 Core Requirements	30		Group 1 Core Requirements	28
	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 Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/earlychildhood/>.

Elementary Education STEM Focus	
<p>1. Science: Understanding basic scientific concepts, the scientific method, and the relationship between science and technology.</p> <p>2. Mathematics: Developing foundational math skills, including addition, subtraction, multiplication, and division, and understanding fractions and decimals.</p> <p>3. Engineering: Applying problem-solving skills to design and build simple structures or machines, understanding the engineering process.</p> <p>4. Technology: Using basic computer skills, understanding the role of technology in society, and exploring digital literacy.</p>	<p>1. Science: Understanding basic scientific concepts, the scientific method, and the relationship between science and technology.</p> <p>2. Mathematics: Developing foundational math skills, including addition, subtraction, multiplication, and division, and understanding fractions and decimals.</p> <p>3. Engineering: Applying problem-solving skills to design and build simple structures or machines, understanding the engineering process.</p> <p>4. Technology: Using basic computer skills, understanding the role of technology in society, and exploring digital literacy.</p>

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 1150	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
PHS 1350	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab (5) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit. Department will substitute GEOLOGY 1120 for this requirement.	3	
MAT 1185 or MAT 1230	Fundamentals of Algebra or College Algebra or higher math	4	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra or higher math Department will substitute MATH 1103 for MATH 1140.	3	
PHS1420 or PHS 1200	College Physics I (4) or Intro to Astronomy (3)	3	PHYSICS 1145* or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3	
GEO 1130	Regional World Geography	3	HISTORY 2110	World Regional Geography	3	
HIS 1130	Western Civilization I	3	HISTORY 1100	Early Western Civilization	3	
HIS 1140	Western Civilization II	3	HISTORY 1200	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	
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	
ENG 2520	Children's Literature	3	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	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 Understanding and Appreciation	3	
	Group 2 Emphasis/Focus Area Requirements	41		Group 2 Emphasis/Focus Area Requirements	37	
	Group 1 Core Requirements	30		Group 1 Core Requirements	28	
	Total Hours	71		Total Hours*	65	

Professional Requirements for Teacher Education Program: Please view all Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/elementaryeducation/>.

Middle School Language Arts Emphasis Area

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
MAT 1185 or MAT 1230	Fundamentals of Algebra or College Algebra	4		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
BIO 1150	General Biology	5		BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
PHS 1200 or PHS 1350	Intro to Astronomy (3) or General Chemistry I (5)	3		PHYSICS 1505 or CHEM 1310	Introductory Astronomy (3) or General Chemistry (4) <small>Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.</small>	3
CSC 1100	Programming Logic	3		CS 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 Understanding and 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	3		Literature	Literature Elective	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	33			Group 2 Emphasis/Focus Area Requirements	31
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	63			Total Hours*	59

*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/middleschool/>.

Middle School Mathematics Emphasis Area

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 1150	General Biology	5		BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
PHS 1200 or PHS 1420 or PHS 1350	Intro to Astronomy (3) or College Physics I (4) or General Chemistry I (5)	3		PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry I (3) <small>Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.</small>	3
MAT 1185	Fundamentals of Algebra	4		MATH 1103	Fundamentals of Algebra	3
MAT 1230	College Algebra	4		MATH 1140	College Algebra	3
MAT 1650	Analytical Geometry and Calculus I	5		MATH 1214	Calculus for Engineers I	4
MAT 2150	Analytical Geometry and Calculus II	3		MATH 1215	Calculus II	4
CSC 1100	Programming Logic	3		CS 1500	Computational Problem Solving	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 Understanding and 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	42			Group 2 Emphasis/Focus Area Requirements	39
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	72			Total Hours*	67

*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/middleschool/>.

Middle School Science Emphasis Area

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
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 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) <small>Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.</small>	3
PHS 1350	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
MAT 1185 or MAT 1230	Fundamentals of Algebra or College Algebra	4		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	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 Understanding and 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	35			Group 2 Emphasis/Focus Area Requirements	33
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	65			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/middleschool/>.

Middle School Social Sciences Emphasis Area

<u>Mineral Area College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 1150	General Biology	5		BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
PHS 1200 or PHS 1420 or PHS 1350	Intro to Astronomy (3) or College Physics I (4) or General Chemistry I (5)	3		PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4) <small>Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.</small>	3
MAT 1185 or MAT 1230	Fundamentals of Algebra or College Algebra	4		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
CSC 1100	Programming Logic	3		CS 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 Understanding and 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	33			Group 2 Emphasis/Focus Area Requirements	31
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	63			Total Hours*	59

*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School Social Sciences Emphasis Area.