

**Metropolitan Community 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>Metropolitan Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENGL 101	Composition and Reading I	3		ENG 1120	Exposition and Argumentation	3
ENGL 102	Composition and Reading II	3		ENG 1160	Writing and Research	3
COMM 100	Fundamentals of Speech	3		SP&MS 1185	Principles of Speech	3
PHIL 100 or PHIL 200	Introduction to Philosophy or Logic	3		PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
POLS 136	Intro to U.S. National Politics	3		POL SCI 1200	American Government	3
EDUC 100	Introduction to Education	2		EDUC 1074	Education in a Diverse Society	3
EDUC 201	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1
EDUC 270	Educational Psychology	3		EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 241	Human Development	3		PSYCH 3310	Developmental Psychology	3
EDUC 285	Education of Exceptional Learners	3		EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours	29			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](http://ugs.mst.edu). Your campus may have additional acceptable options. Consult with your advisor or email [transfer@mst.edu](mailto:transfer@mst.edu) with questions.

## Early Childhood

### Metropolitan Community 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.

BIOL 101	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
CHEM 111 or GEOL 101 or GEOL 102	General College Chemistry I (5) or Physical Geology (5) or Historical Geology (4)	4	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3) 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
MATH 120	College Algebra or higher math	3	MATH 1140	College Algebra or higher math	3
PHYS 106 or PHYS 130	General Astronomy (4) or General Physics I (5)	4	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
GEOG 105	World Geography	3	HISTORY 2110	World Regional Geography	3
HIST 133 or HIST 134 or HIST 120 or HIST 121	Foundations of Western Civilization or Modern Western Civilization or United States History to 1865 or United States History since 1865	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 215	Children's Literature for Elementary Teachers	3	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	3
Literature	Literature Elective	3	Literature	Literature Elective	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3
ART 108 or MUSI 108	Survey of Art or Music Appreciation	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.

ECED 101	Fundamentals of Early Care and Education	3	EDUC 1055	Intro to Early Childhood Education	3
ECED 110	Child Health, Safety, and Nutrition	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3
ECED 220	Child Care Management	3	EDUC 1820	Early Childhood Program Management	3
ECED 149	Observation and Assessment	3	EDUC 2440	Observation and Assessment of Young Children	3
ECED 262	Working with Families and the Community	3	EDUC 2401	School, Family, and Community Partnerships	3
ECED 113	Child Growth and Development	3	EDUC 2211	Child Development	3
	Group 2 Emphasis/Focus Area Requirements	32		Group 2 Emphasis/Focus Area Requirements	33
	Group 1 Core Requirements	29		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

Metropolitan Community College			Semester	Missouri S&T	
BIOL 101 or BIOL 123	General Biology (5) or General Biology for Majors I (4)	4	BIO SCI 1113, 1219 or BIO SCI 1213, 1219*	General Biology (3) and Lab (1) or Principles of Biology (3) and Lab (1)* <small>*Will be substituted for BIO SCI 1113, 1219</small>	4
BIOL 124	General Biology for Majors II	4	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHEM 111 or GEOL 101 or GEOL 102	General College Chemistry I (5) or Physical Geology (5) or Historical Geology (4)	4	CHEM 1310, 1319 or GEOLOGY 1110 or GEOLOGY 1120	General Chemistry I and Lab (5) or Physical and Environmental Geology (3) or Evolution of the Earth (3) 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
MATH 120	College Algebra or higher level math	3	MATH 1140	College Algebra or higher level math Department will substitute MATH 1103 for MATH 1140.	3
PHYS 106 or PHYS 130	General Astronomy (4) or General Physics I (5)	4	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
GEOG 105	World Geography	3	HISTORY 2110	World Regional Geography	3
HIST 133	Foundations of Western Civilization	3	HISTORY 1100	Early Western Civilization	3
HIST 134	Modern Western Civilization	3	HISTORY 1200	Modern Western Civilization	3
HIST 120 or HIST 121	United States History to 1865 or United States History since 1865	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ECON 211 or ECON 210	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
EDUC 215	Children's Literature for Elementary Teachers	3	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology	3
ART 108 or MUSI 108	Survey of Art or Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Understanding and Appreciation	3
Group 2 Emphasis/Focus Area Requirements		43	Group 2 Emphasis/Focus Area Requirements		41
Group 1 Core Requirements		29	Group 1 Core Requirements		28
Total Hours		72	Total Hours*		69

\*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 Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/elementaryeducation/>.

## Middle School Language Arts Emphasis Area

<u>Metropolitan Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
MATH 120	College Algebra	3	MATH 1140	College Algebra	3	
BIOL 101	General Biology (5)	4	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
GEOL 101 or GEOL 102 or PHYS 106 or CHEM 111	Physical Geology (5) or Historical Geology (4) General Astronomy (4) or General College Chemistry (5)	4	GEOLOGY 1110 or GEOLOGY 1120 or PHYSICS 1505 or CHEM 1310	Physical and Environmental Geology (3) or Evolution of the Earth (3) or Introductory Astronomy (3) or General Chemistry (4) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3	
CSIS 123 or CSIS 223 or ENGR 204	Programming Fundamentals or Object-Oriented Programming with C++ or Programming for Engineers	3	CS 1500 or CS 1971/1981* or CS 1972/1982*	Computational Problem Solving or Intro to Programming Methodology and Lab* or Intro to MATLAB Programming and Lab* *Department will substitute for this requirement.	3	
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3	
HIST 133 or HIST 134 or HIST 120 or HIST 121	Foundations of Western Civilization or Modern Western Civilization or United States History to 1865 or United States History since 1865	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 211 or ECON 210	Microeconomics or 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	32		Group 2 Emphasis/Focus Area Requirements	31	
	Group 1 Core Requirements	29		Group 1 Core Requirements	28	
	Total Hours	61		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.			
<b>Professional Requirements for Teacher Education Program: Please view all program requirements at <a href="https://teachereducation.mst.edu/middleschool/">https://teachereducation.mst.edu/middleschool/</a>.</b>						

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

## Middle School Mathematics Emphasis Area

<u>Metropolitan Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIOL 101	General Biology (5)	4	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
GEOL 101 or GEOL 102	Physical Geology (5) or Historical Geology (4)	4	GEOLOGY 1110	Physical and Environmental Geology	3	
PHYS 106 or PHYS 130 or CHEM 111*	General Astronomy (4) or General Physics I (5) or General College Chemistry I* (5)	4	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	
MATH 120	College Algebra	3	MATH 1140	College Algebra	3	
MATH 180	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4	
MATH 190 or MATH 175	Analytic Geometry and Calculus II (5) or Calculus for Business and Social Science (3)	3	MATH 1215 or MATH 1212	Calculus II (4) or Survey of Calculus (4)	4	
CSIS 123 or CSIS 223 or ENGR 204	Programming Fundamentals or Object-Oriented Programming with C++ or Programming for Engineers	3	CS 1500 or CS 1971/1981* or CS 1972/1982*	Computational Problem Solving or Intro to Programming Methodology and Lab* or Intro to MATLAB Programming and Lab* <small>*Department will substitute for this requirement.</small>	3	
MATH 115 or ENGR 215	Statistics or Engineering Statistics and Computation	3	STAT 1115 or STAT 3115	Statistics for the Social Sciences I or Engineering Statistics	3	
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3	
HIST 133 or HIST 134 or HIST 120 or HIST 121	Foundations of Western Civilization or Modern Western Civilization or United States History to 1865 or United States History since 1865	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 211 or ECON 210	Microeconomics or 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	41		Group 2 Emphasis/Focus Area Requirements	39	
	Group 1 Core Requirements	29		Group 1 Core Requirements	28	
	Total Hours	70		Total Hours*	67	
<small>*S&amp;T advisor permission is required to transfer more than 60 credits toward the S&amp;T degree for Middle School Math Emphasis Area.</small>						
<b>Professional Requirements for Teacher Education Program: Please view all program requirements at <a href="https://teachereducation.mst.edu/middleschool/">https://teachereducation.mst.edu/middleschool/</a>.</b>						

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

## Middle School Science Emphasis Area

Metropolitan Community College			Semester	Missouri S&T		
BIOI 123 or BIOL 101	General Biology for Majors I (4) or General Biology (5)	4	BIO SCI 1213, 1219 or BIO SCI 1113, 1219	Principles of Biology and Lab or General Biology and Lab	4	
BIOL 102	Environmental Science	5	BIO SCI 1173	Intro to Environmental Sciences	3	
BIOL 204 or BIOL 214	Genetics (3) or Principles of Genetics (4)	3	BIO SCI 2223	General Genetics	3	
GEOL 101	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3	
GEOL 102	Historical Geology	4	GEOLOGY 1120	Evolution of the Earth	3	
PHYS 106 or PHYS 130	General Astronomy (4) or General Physics I (5)	4	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	
CHEM 111	General College Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab	5	
MATH 120	College Algebra	3	MATH 1140	College Algebra	3	
MATH 115 or ENGR 215	Statistics or Engineering Statistics and Computation	3	STAT 1115 or STAT 3115	Statistics for the Social Sciences I or Engineering Statistics	3	
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3	
HIST 133 or HIST 134 or HIST 120 or HIST 121	Foundations of Western Civilization or Modern Western Civilization or United States History to 1865 or United States History since 1865	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 211 or ECON 210	Microeconomics or 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	48		Group 2 Emphasis/Focus Area Requirements	42	
	Group 1 Core Requirements	29		Group 1 Core Requirements	28	
	Total Hours	77		Total Hours*	70	
			<small>*S&amp;T advisor permission is required to transfer more than 61 credits toward the S&amp;T degree for Middle School Science Emphasis Area.</small>			
Professional Requirements for Teacher Education Program: Please view all program requirements at <a href="https://teachereducation.mst.edu/middleschool/">https://teachereducation.mst.edu/middleschool/</a> .						

\*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>Metropolitan Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIOL 101	General Biology (5)	4	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
GEOL 101 or GEOL 102 or PHYS 106 or PHYS 130 or CHEM 111	Physical Geology (5) or Historical Geology (4) or General Astronomy (4) or General Physics I (5) or General College Chemistry I* (5)	4	GEOLOGY 1110 or GEOLOGY 1120 or PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Physical and Environmental Geology (3) or Evolution of the Earth (3) or Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4)  Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3	
MATH 120	College Algebra	3	MATH 1140	College Algebra	3	
CSIS 123 or CSIS 223 or ENGR 204	Programming Fundamentals or Object-Oriented Programming with C++ or Programming for Engineers	3	CS 1500 or CS 1971/1981* or CS 1972/1982*	Computational Problem Solving or Intro to Programming Methodology and Lab* or Intro to MATLAB Programming and Lab*  *Department will substitute for this requirement.	3	
GEOG 105	World Geography	3	HISTORY 2110	World Regional Geography	3	
HIST 133 or HIST 134	Foundations of Western Civilization or Modern Western Civilization	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3	
HIST 120 or HIST 121	United States History to 1865 or United States History since 1865	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3	
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3	
ECON 211 or ECON 210	Microeconomics or 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	32		Group 2 Emphasis/Focus Area Requirements	31	
	Group 1 Core Requirements	29		Group 1 Core Requirements	28	
	Total Hours	61		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.						

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