

**St. Charles Community College — Missouri S&T**  
**Early Childhood, Elementary, and Middle School Teacher Education Transfer Guide**  
 Effective as of Fall 2023

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

**Group 1 - Core Requirements: All 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>St. Charles Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>			
ENG 101	English Composition I	3		ENG 1120	Exposition and Argumentation	3	
ENG 102	English Composition II	3		ENG 1160	Writing and Research	3	
COM 106	Public Speaking	3		SP&MS 1185	Principles of Speech	3	
LIT 250 or LIT 210 or LIT 272 or LIT 223	English Literature Before 1800 or American Literature From 1620-1865 or World Lit-Ancient World thru Renaissance or African American Literature (or other literature elective)	3		ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or African American Literature (or other literature elective)	3	
PHL 101 or PHL 102	Intro to Philosophy or Intro to Logic	3		PHIL1105 or PHIL 1115	Intro to Philosophy or Intro to Logic	3	
GEO 110	Geography for Educators	3		HISTORY 2110	World Regional Geography	3	
POL 101	American Government	3		POL SCI 1200	American Government	3	
PSY 101	Intro to Psychology	3		PSYCH 1101	General Psychology	3	
EDU 212	Foundations of Education in a Diverse Society	3		EDUC 1040	Perspectives in Education	3	
EDU 285	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1	
EDU 240	Educational Psychology	3		PSYCH 2300	Educational Psychology	3	
PSY 110	Human Growth and Development	3		PSYCH 3310	Developmental Psychology	3	
EDU 250	Education of Exceptional Learners	3		EDUC 2310	Education of the Exceptional Child	3	
Total Hours			39				Total Hours
						37	

**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 Studies 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

St. Charles Community College		Semester	Missouri S&T		
BIO 150	General Biology: Cells to Organisms	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
CHM 115 or PHY 125	General Chemistry I (5) or Intro to Physical Geology (3)	3	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab or Physical and Environmental Geology	3
MAT 158	College Algebra	4	MATH 1140	College Algebra (or higher level math)	3
PHY 150 or PHY 130	General Physics I or Astronomy	3	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
HIS 145 or HIS 146 or HIS 101 or HIS 102	Western Civ: Ancient and Medieval Heritage or Western Civ: Modern European Heritage or US History to 1877 or US 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
EDU 225	Literature for Children	3	EDUC 3430	Children's Literature	3
ART 1001 or MUS 111	Art Appreciation or Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Understanding and Appreciation	3
	Group 2 Major Requirements	24		Group 2 Major Requirements	23
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	63		Total Hours*	60

\*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

St. Charles Community College		Semester	Missouri S&T		
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	4	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
BIO 151	General Biology: Organisms to Environment	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 115 or PHY 125	General Chemistry I (5) or Intro to Physical Geology (3)	3	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab or Physical and Environmental Geology	5 or 3
MAT 158	College Algebra	4	MATH 1140	College Algebra (or higher level math)	3
PHY 150 or PHY 130	General Physics I or Astronomy	3	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
HIS 145	Western Civ: Ancient and Medieval Heritage	3	HISTORY 1100	Early Western Civilization	3
HIS 146	Western Civ: Modern European Heritage	3	HISTORY 1200	Modern Western Civilization	3
HIS 101 or HIS 102	US History to 1877 or US History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
EDU 225	Literature for Children	3	EDUC 3430	Children's Literature	3
ART 1001 or MUS 111	Art Appreciation or Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Understanding and Appreciation	3
	World History Elective	3		World History Elective	3
	American History Elective	3		American History Elective	3
	Group 2 Major Requirements	43		Group 2 Major Requirements	39
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	82		Total Hours*	76

\*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>St. Charles Community College</u>	<u>Semester</u>	<u>Missouri S&amp;T</u>		
MAT 121 or MAT 158	Intermediate Algebra or College Algebra	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
PHY 125 or PHY 145 or PHY 130 or CHM 115	Intro to Physical Geology (3) or Historical Geology (3) or Astronomy (3) or General Chemistry I (5)	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)	3
CPT 135 or CPT 185 or CPT 189 or CPT 182	Computer Science I with Python (4) or Programming in C Sharp (3) or Java Programming (3) or Beginning Programming in C++ (3)	CS 1500 or CS 1570	Computational Problem Solving or Intro to C++ Programming	3
ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of Theatre	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Literature Elective	Literature Elective	Literature Elective	Literature Elective	3
UL Literature Elective	Upper Level Literature Elective	UL Literature Elective	Upper Level Literature Elective	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements		Group 2 Major Requirements	29
	Group 1 Core Requirements		Group 1 Core Requirements	37
	Total Hours			68
			Total Hours*	66

\*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>St. Charles Community College</u>	<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
PHY 125 or PHY 145	Intro to Physical Geology or Historical Geology	GEOLOGY 1110 or GEOLOGY 1120	Physical and Environmental Geology (3) or Evolution of the Earth (3)	3
PHY 130 or PHY 150 or CHM 115	Astronomy (3) or General Physics I (3) or General Chemistry I (5)	PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4)	3
MAT 121	Intermediate Algebra	MATH 1103	Fundamentals of Algebra	3
MAT 158	College Algebra	MATH 1140	College Algebra	3
MAT 168	Trigonometry	MATH 1160	Trigonometry	2
MAT 180	Calculus and Analytical Geometry I	MATH 1214	Calculus I	4
MAT 230 or MAT 210	Calculus and Analytical Geometry II (5) or Survey Calculus (4)	MATH 1215 or MATH 1212	Calculus II (4) or Survey of Calculus (4)	4
CPT 135 or CPT 185 or CPT 189 or CPT 182	Computer Science I with Python (4) or Programming in C Sharp (3) or Java Programming (3) or Beginning Programming in C++ (3)	CS 1500 or CS 1570	Computational Problem Solving or Intro to C++ Programming	3
MAT 157 or MAT 175	College Statistics-General Education or Introductory Statistics	STAT 1115	Statistics for the Social Sciences I	3
ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of Theatre	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements		Group 2 Major Requirements	42
	Group 1 Core Requirements		Group 1 Core Requirements	37
	Total Hours			84
			Total Hours*	79

\*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

St. Charles Community College		Semester	Missouri S&T		
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	4	BIOI 1113, 1219	General Biology and Lab	5
PHY 125	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology (3)	3
PHY 145	Historical Geology	3	GEOLOGY 1120	Evolution of the Earth (3)	3
PHY 130 or PHY 150	Astronomy (3) or General Physics I (3)	3	PHYSICS 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics I (4)	3
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MAT 121 or MAT 158	Intermediate Algebra or College Algebra	4	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
MAT 157 or MAT 175	College Statistics-General Education or Introductory Statistics	3	STAT 1115	Statistics for the Social Sciences I	3
ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements	34		Group 2 Major Requirements	34
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	73		Total Hours*	71

\*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 Studies Emphasis Area

St. Charles Community College		Semester	Missouri S&T		
BIO 105, 106 or BIO 150	Essentials of Biology and Lab (4) or General Biology: Cells to Organisms (5)	4	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
PHY 125 or PHY 145 or PHY 130 or PHY 150 or CHM 115	Intro to Physical Geology (3) or Historical Geology (3) or Astronomy (3) or General Physics I (3) or General Chemistry I (5)	3	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)	3
MAT 121 or MAT 158	Intermediate Algebra or College Algebra	4	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
CPT 135 or CPT 185 or CPT 189 or CPT 182	Computer Science I with Python (4) or Programming in C Sharp (3) or Java Programming (3) or Beginning Programming in C++ (3)	3	CS 1500 or CS 1570	Computational Problem Solving or Intro to C++ Programming	3
HIS 145 or HIS 146	Western Civ: Ancient and Medieval Heritage or Western Civ: Modern European Heritage	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HIS 101 or HIS 102	US History to 1877 or US History Since 1877	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ART 1001 or MUS 111 or THE 122	Art Appreciation or Music Appreciation or Intro of Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 120 or ECO 110	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
World History	World History Elective	3	World History	World History Elective	3
American History	American History Elective	3	American History	American History Elective	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements	35		Group 2 Major Requirements	35
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	74		Total Hours*	72

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

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