

East Central College — Missouri S&T
Early Childhood, Elementary, and Middle School Teacher Education Transfer Guide
 Effective as of Fall 2021

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>East Central College</u>		<u>Semester</u>	<u>Missouri S&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 110	Public Speaking	3	SP&MS 1185	Principles of Speech	3
ENG 210 or ENG 221 or ENG 124 or ENG 214 or ENG 215	Survey British Lit: Beginnings to 1784 or Survey American Lit: Colonial to 1865 or World Literature I or Women's Literature or African-American Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature (or other literature elective)	3
PHL 101 or PHL 111	Intro to Philosophy or Intro to Logic	3	PHIL1105 or PHIL 1115	Intro to Philosophy or Intro to Logic	3
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	3
PSC 102	US Government I: National and State	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
EDU 201 or EDU 214	Foundations of Education or Multicultural Education	3	EDUC 1040	Perspectives in Education	3
EDU 241	Educational Psychology	3	PSYCH 2300	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 3310	Developmental Psychology	3
EDU 244	Education of the Exceptional Learner	3	EDUC 2310	Education of the Exceptional Child	3
Total Hours					36
					Total Hours
					36

**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. Your campus may have additional acceptable options. Consult with your advisor or email transfer@mst.edu with questions.

Early Childhood

<u>East Central College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 111	General Biology I and Lab	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
CHM 111 or	General Chemistry I and Lab (5) or	3	CHEM 1310, 1319 or	General Chemistry I and Lab (5) or	3
GEO 101	Intro to Physical Geology (3)	3	GEOLOGY 1110	Physical and Environmental Geology (3)	3
MTH 183	College Algebra	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or	College Physics I or	3	PHYSICS 1145 or	College Physics I or	3
PHY 102	Intro to Astronomy	3	PHYSICS 1505	Astronomy	3
CIV 201 or	European Civilization I or	3	HISTORY 1100 or	Early Western Civilization or	3
CIV 202 or	European Civilization II or	3	HISTORY 1200 or	Modern Western Civilization or	3
HST 101 or	US History to 1877 or	3	HISTORY 1300 or	American History to 1877 or	3
HST 102	US History Since 1877	3	HISTORY 1310	American History since 1877	3
EDU 213	Literature for Children	3	EDUC 3430	Children's Literature	3
ART 101 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUS 101	Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3
	Group 2 Major Requirements	23		Group 2 Major Requirements	23
	Group 1 Core Requirements	36		Group 1 Core Requirements	36
	Total Hours	59		Total Hours*	59

*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

<u>East Central College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 111	Principles of Biology I and Lab	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
BIO 122	Principles of Biology II and Lab	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 111 or	General Chemistry I and Lab (5) or	3	CHEM 1310, 1319 or	General Chemistry I and Lab or	3
GEO 101	Intro to Physical Geology (3)	3	GEOLOGY 1110	Physical and Environmental Geology	3
MTH 170	College Algebra	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or	College Physics I (5) or	3	PHYSICS 1145 or	College Physics I or	3
PHY 102	Intro to Astronomy (3)	3	PHYSICS 1505	Astronomy	3
CIV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization	3
HST 101 or	US History to 1877 or	3	HISTORY 1300 or	American History to 1877 or	3
HST 102	US History Since 1877	3	HISTORY 1310	American History since 1877	3
ECO 102 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECO 101	Principles of Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
EDU 213	Literature for Children	3	EDUC 3430	Children's Literature	3
ART 101 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUS 101	Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	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
	Group 2 Major Requirements	43		Group 2 Major Requirements	42
	Group 1 Core Requirements	36		Group 1 Core Requirements	36
	Total Hours	79		Total Hours*	78

*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>East Central College</u>	<u>Semester</u>	<u>Missouri S&T</u>	
MTH 110 or MTH 170	Intermediate Algebra or College Algebra	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra
BIO 111	Principles of Biology I and Lab	BIOL 1113, 1219	General Biology (3) and Lab (2)
GEO 101 or PHY 102 or CHM 111	Intro to Physical Geology (3) or Intro to Astronomy (3) or General Chemistry I and Lab (5)	GEOLOGY 1110 or PHYSICS 1505 or CHEM 1310, 1319*	Physical and Environmental Geology (3) or Introductory Astronomy (3) or General Chemistry (4) and Lab* (1)
CIS 143 or EGR 221, 222 or EGR 251	Implementing Information Systems-User Perspective or C++ Program Engineers and Lab or Data Structures	IST 1550 or CS 1500	Implementing Info Systems: User Perspective or Computational Problem Solving
ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
Literature Elective	Literature Elective	Literature Elective	Literature Elective
UL Literature Elective	Upper Level Literature Elective	UL Literature Elective	Upper Level Literature Elective
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language
	Group 2 Major Requirements		Group 2 Major Requirements
	Group 1 Core Requirements		Group 1 Core Requirements
	Total Hours		Total Hours*
	65		65

*Note: CHEM 1319 is not an S&T degree requirement; course will transfer as elective credit.

*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>East Central College</u>	<u>Semester</u>	<u>Missouri S&T</u>	
BIO 111	Principles of Biology I and Lab	BIOL 1113, 1219	General Biology (3) and Lab (2)
GEO 101	Intro to Physical Geology	GEOLOGY 1110	Physical and Environmental Geology
PHY 102 or PHY 111 or CHM 111	Intro to Astronomy (3) or College Physics I or General Chemistry I and Lab (5)	PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4)
MTH 110	Intermediate Algebra	MATH 1103	Fundamentals of Algebra
MTH 170	College Algebra	MATH 1140	College Algebra
MTH 171	Trigonometry	MATH 1160	Trigonometry
MTH 190	Analytic Geometry & Calculus I	MATH 1208 or MATH 1214	Calculus with Analytic Geometry I (5) or Calculus I (4)
MTH 210 or MTH 180	Analytic Geometry & Calculus II (5) or Survey Calculus (3)	MATH 1221 or MATH 1215 or MATH 1212	Calculus with Analytic Geometry II (5) or Calculus II (4) or Survey of Calculus (4)
CIS 143 or EGR 221, 222 or EGR 251	Implementing Information Systems-User Perspective or C++ Program Engineers and Lab or Data Structures	IST 1551 or CS 1500 or CS 1971/1981	Implementing Info Systems: User Perspective or Computational Problem Solving or Intro to Programming Methodology and Lab
BUS 210 or MTH 150 or MTH 242	Basic Business Statistics or Statistics or Engineering Statistics	STAT 1115 or STAT 3115	Statistics for the Social Sciences I or Engineering Statistics
ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language
	Group 2 Major Requirements		Group 2 Major Requirements
	Group 1 Core Requirements		Group 1 Core Requirements
	Total Hours		Total Hours*
	76		78

*Note: CHEM 1319 is not an S&T degree requirement; course will transfer as elective credit.

*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>East Central College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 111	Principles of Biology I and Lab	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
EVR 103	Intro to Environmental Science	3	BIOL 1173	Intro to Environmental Sciences	3
GEO 101	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology (3)	3
PHY 102 or PHY 111	Intro to Astronomy (3) or College Physics I	3	PHYSICS 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics I (4)	3
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 110 or MTH 170	Intermediate Algebra or College Algebra	3	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
MTH 150 or BUS 210 or MTH 242	Statistics or Basic Business Statistics or Engineering Statistics	3	STAT 1115 or STAT 3115	Statistics for the Social Sciences I or Engineering Statistics	3
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	3
ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 102 or ECO 101	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	37		Group 2 Major Requirements	37
	Group 1 Core Requirements	36		Group 1 Core Requirements	36
	Total Hours	73		Total Hours*	73

*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

<u>East Central College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 111	Principles of Biology I and Lab	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
GEO 101 or PHY 102 or PHY 111 or CHM 111	Intro to Physical Geology or Intro to Astronomy (3) or College Physics I or General Chemistry I and Lab (5)	3	GEOLOGY 1110 or PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Physical and Environmental Geology (3) or Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4)	3
MTH 110 or MTH 170	Intermediate Algebra or College Algebra	3	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
CIS 143 or EGR 221, 222 or EGR 251	Implementing Information Systems-User Perspective or C++ Program Engineers and Lab or Data Structures	3	IST 1551 or CS 1500 or CS 1971/1981	Implementing Info Systems: User Perspective or Computational Problem Solving or Intro to Programming Methodology and Lab	3
CIV 201 or CIV 202	European Civilization I or European Civilization II	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HST 101 or HST 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 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
American History	American History Elective	3	American History	American History Elective	3
World History	World History Elective	3	World History	World History Elective	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	2	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements	34		Group 2 Major Requirements	35
	Group 1 Core Requirements	36		Group 1 Core Requirements	36
	Total Hours	70		Total Hours*	71

*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/>.