

**Ozarks Technical 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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 101	Composition I	3	ENG 1120	Exposition and Argumentation	3
ENG 102	Composition II	3	ENG 1160	Writing and Research	3
COM 105	Public Speaking	3	SP&MS 1185	Principles of Speech	3
ENG 340 or ENG 350 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective)	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	3
PLS 101	American Government and Politics	3	POL SCI 1200	American Government	3
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3
EDU 220	Foundations of Education	3	EDUC 1040	Perspectives in Education	3
EDU 270	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 250	Educational Psychology	3	PSYCH 2300	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3
EDU 260	Education Exceptional Learner	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

<u>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
CHM 160,161 or PHY 110	General Chemistry (4) and Lab (1) or Intro to Geology (4)	4 or 5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab or Physical and Environmental Geology	5 or 3
MTH 130	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
HST 105 or HST 106 or HST 120 or HST 130	World History I or World History II or US History I: to 1865 or US History II: 1865-Present	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
ENG 250	Children's Literature	3	EDUC 3430	Diverse Literature for Children	3
ART 100 or MUS 105 or	Art and Experience or Western Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Understanding and Appreciation	3
	Group 2 Major Requirements	20		Group 2 Major Requirements	20
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	59		Total Hours*	57

\*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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
BIO 170	General Biology II	4	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 160,161 or PHY 110	General Chemistry (4) and Lab (1) or Intro to Geology (4)	4 or 5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab or Physical and Environmental Geology	5 or 3
MTH 130	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
HST 105	World History I	3	HISTORY 1100	Early Western Civilization	3
HST 106	World History II	3	HISTORY 1200	Modern Western Civilization	3
HST 120 or HST 130	US History I: to 1865 or US History II: 1865-Present	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
ENG 250	Children's Literature	3	EDUC 3430	Diverse Literature for Children	3
ART 100 or MUS 105 or	Art and Experience or Western 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	39		Group 2 Major Requirements	39
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	78		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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
MTH 130	College Algebra (or higher level math)	3	MATH 1140	College Algebra	3
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
CHM 160,161 or PHY 110 or PHY 115	General Chemistry (4) and Lab (1) or Intro to Geology (4) or Intro to Astronomy (4)	4	CHEM 1310 or GEOLOGY 1110 or PHYSICS 1505	General Chemistry I (4) or Physical and Environmental Geology (3) or Introductory Astronomy (3)	3
CIS 150 or CSC 160 or CSC 210 or CSC 140	C# Programming I (3) or Python Programming I (3) or Data Structures (4) or C++ Programming (4)	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
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Literature Elective	Literature Elective	3	Literature Elective	Literature Elective	3
UL Literature Elective	Upper Level Literature Elective	3	UL Literature Elective	Upper Level Literature 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	29		Group 2 Major Requirements	29
	Group 1 Core Requirements	39		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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
PHY 110	Intro to Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 115 or PHY 120 or CHM 160, 161	Intro to Astronomy or General Physics I or General Chemistry and Lab	4	PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4)	3
MTH 130	College Algebra	3	MATH 1140	College Algebra	3
MTH 131	Trigonometry	3	MATH 1160	Trigonometry	2
MTH 140	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 141	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
CIS 150 or CSC 160 or CSC 210 or CSC 140	C# Programming I (3) or Python Programming I (3) or Data Structures (4) or C++ Programming (4)	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
MTH 210	Statistical Methods	3	STAT 1115	Statistics for the Social Sciences I	3
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	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	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 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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
BIO 150 or ATS 112	Environmental Science or Intro to Environmental Science	3	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 250	Genetics	4	BIO SCI 2223	General Genetics	3
PHY 110	Intro to Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
CHM 160, 161	General Chemistry and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 130	College Algebra	3	MATH 1140	College Algebra	3
MTH 210	Statistical Methods	3	STAT 1115	Statistics for the Social Sciences I	3
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	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	39		Group 2 Major Requirements	37
	Group 1 Core Requirements	39		Group 1 Core Requirements	37
	Total Hours	78		Total Hours*	74

\*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>Ozarks Technical College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>		
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (2)	5
PHY 110 or PHY 115 or PHY 120 or CHM 160, 161	Intro to Geology or Intro to Astronomy or General Physics I or General Chemistry and Lab	4	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 130	College Algebra	3	MATH 1140	College Algebra	3
CIS 150 or CSC 160 or CSC 210 or CSC 140	C# Programming I (3) or Python Programming I (3) or Data Structures (4) or C++ Programming (4)	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
HST 105 or HST 106	World History I or World History II	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HST 120 or HST 130	US History I: 1865 or US History II: 1865-Present	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	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/>.**