

**Ozarks Technical 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.

<b>Ozarks Technical Community College</b>			<b>Semester</b>	<b>Missouri S&amp;T</b>		
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
PHL 101	Intro to Philosophy	3		PHILOS 1105	Intro to Philosophy	3
PLS 101	American Government and Politics	3		POL SCI 1200	American Government	3
EDU 220	Foundations of Education	3		EDUC 1074	Education in a Diverse Society	3
EDU 270	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1
EDU 250	Educational Psychology	3		EDUC 2102 or 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 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](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

### Ozarks Technical 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.

BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
CHM 160,161 or PHY 110	General Chemistry I (4) and Lab (1) or Intro to Geology (4)	4 or 5	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
MTH 130	College Algebra or higher math	3	MATH 1140	College Algebra or higher math	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	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
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	3
HST 120 or HST 130 or HST 105 or HST 106	US History I: to 1865 or US History II: 1865-Present or Ancient and Medieval World History or Modern World History	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 250	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 110	Intro to Psychology	3	PSYCH 1101	General Psychology	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

#### 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.

ECD 101	Foundations of Early Childhood	3	EDUC 1055	Intro to Early Childhood Education	3
ECD 170	Health, Safety, and Nutrition	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3
ECD 260	Curriculum and Assessment in ECD	3	EDUC 2440	Observation and Assessment of Young Children	3
ECD 165	Family and Community in ECD	3	EDUC 2401	School, Family, and Community Partnerships	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

Ozarks Technical Community College			Semester	Missouri S&T		
BIO 100 or BIO 160 BIO 170	Life Science or General Biology I General Biology II	4  4		BIO SCI 1113, 1219  BIO SCI 1223, 1229	General Biology (3) and Lab (1) Biodiversity and Lab	4  4
CHM 160,161 or PHY 110	General Chemistry I (4) and Lab (1) or Intro to Geology (4)	4 or 5		CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3) <small>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.</small>	3
MTH 130	College Algebra or higher math	3		MATH 1140	College Algebra or higher math	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	4		PHYSICS 1145* or PHYSICS 1505	College Physics I (4) or Astronomy (3) <small>Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.</small>	3
GRY 101	World Geography	3		HISTORY 2110	World Regional Geography	3
HST 105	Ancient and Medieval World History	3		HISTORY 1100	Early Western Civilization	3
HST 106	Modern World History	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 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	3
PSY 110	Intro to Psychology	3		PSYCH 1101	General Psychology	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 Emphasis/Focus Area Requirements	39			Group 2 Emphasis/Focus Area Requirements	41
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	69			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>Ozarks Technical Community College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
MTH 130	College Algebra	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 (1)	4
CHM 160,161 or PHY 110 or PHY 115	General Chemistry I (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 <small>*Department will substitute for this requirement.</small>	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
HST 105 or HST 106 or HST 120 or HST 130	Ancient and Medieval World History or Modern World History 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
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	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	30			Group 1 Core Requirements	28
	Total Hours	62			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>Ozarks Technical Community 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 (1)	4
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 I and Lab	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
MTH 130	College Algebra	3		MATH 1140	College Algebra	3
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 <small>*Department will substitute for this requirement.</small>	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
HST 105 or HST 106 or HST 120 or HST 130	Ancient and Medieval World History or Modern World History 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
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	Any philosophy, fine art, literature, foreign language	3		Humanities	Any philosophy, fine art, literature, foreign language	3
	Group 2 Emphasis/Focus Area Requirements	43			Group 2 Emphasis/Focus Area Requirements	39
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	73			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>Ozarks Technical Community 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 (1)	1
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 1505 or PHYSICS 1145	Introductory Astronomy (3) or College Physics I (4) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
CHM 160, 161	General Chemistry I 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 or STAT 3113 or STAT 3115	Statistics for the Social Sciences I or Applied Engineering Statistics or Engineering Statistics	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
HST 105 or HST 106 or HST 120 or HST 130	Ancient and Medieval World History or Modern World History 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
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	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	36
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	72			Total Hours*	64
				*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 <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>Ozarks Technical Community 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 (1)	4	
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 I 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)  Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	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  *Department will substitute for this requirement.	3	
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	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: to 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	
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	30		Group 1 Core Requirements	28	
	Total Hours	62		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.