

Ozarks Technical Community College — Missouri S&T

Education BS

Transfer Guide Effective as of Fall 2026

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

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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 Community College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
ENG 101	Composition I	3		ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or	Composition II or	3		ENGLISH 1160 or	Writing and Research or	3
COM 105	Public Speaking	3		SPMS 1185	Principles of Speech	3
PHL 101	Intro to Philosophy	3		PHILOS 1105	Intro to Philosophy	3
PLS 101 or	American Government and Politics or	3		POL SCI 1200 or	American Government or	3
HST 106	Modern World History	3		HISTORY 1200	Modern Western Civilization	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	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3		PSYCH 2300	Educational Psychology	3
EDU 260	Education Exceptional Learner	3		PSYCH 3310	Developmental Psychology	3
				EDUC 2310 or	Education of the Exceptional Child or	3
				PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			27	Total Hours		

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
Secondary Teaching Art Emphasis
Secondary Teaching Computer Science Emphasis
Secondary Teaching General Science Emphasis
Secondary Teaching Spanish Emphasis

Emphasis Area Requirements are detailed on the following pages.

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* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6	
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	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 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	34		Group 2 Emphasis/Focus Area Requirements	36		
	Group 1 Core Requirements	27		Group 1 Core Requirements	25		
	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 program requirements at https://teachereducation.mst.edu/secondaryeducation/ .							

Elementary Education Focus

Ozarks Technical Community College		Semester	Missouri S&T	
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.
6			6	
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.
1			1	
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics
3			3	
GRY 101	World Geography		HISTORY 2110	World Regional Geography
3			3	
HST 105	Ancient and Medieval World History		HISTORY 1100	Early Western Civilization
3			3	
HST 106	Modern World History		HISTORY 1200	Modern Western Civilization
3			3	
HST 120 or HST 130	US History I: to 1865 or US History II: 1865-Present		HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877
3			3	
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
3			3	
ENG 250	Children's Literature		EDUC 3430	Diverse Literature for Children
3			3	
PSY 110	Intro to Psychology		PSYCH 1101	General Psychology
3			3	
ART 100 or MUS 105 or	Art and Experience or Western Music Appreciation		ART 1180 or MUSIC 1150	Art Appreciation or Music Appreciation
3			3	
	Group 2 Emphasis/Focus Area Requirements			Group 2 Emphasis/Focus Area Requirements
	34			34
	Group 1 Core Requirements			Group 1 Core Requirements
	27			25
	Total Hours			Total Hours*
	61			59

*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 program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

Middle School Language Arts Emphasis

Ozarks Technical Community College		Semester	Missouri S&T		
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
CIS 150 or CSC 210 or CSC 140	C# Programming I (3) or Data Structures (4) or C++ Programming (4)	3	IST 1551 or COMP SCI 1500 or COMP SCI 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
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 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 Any literature with prerequisite of no more than English Composition I.	3	Literature	Literature Elective Any literature with prerequisite of no more than ENGLISH 1120.	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	34		Group 2 Emphasis/Focus Area Requirements	34
	Group 1 Core Requirements	27		Group 1 Core Requirements	25
	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.					
Professional Requirements for Teacher Education Program: Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .					

Middle School Mathematics Emphasis

Ozarks Technical Community College			Semester	Missouri S&T		
MTH 130	College Algebra	3	Select 6 hours from at least 2 disciplines.	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
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
CIS 150 or CSC 210 or CSC 140	C# Programming I (3) or Data Structures (4) or C++ Programming (4)	3		IST 1551 or COMP SCI 1500 or COMP SCI 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
MTH 129 or MTH 210 or MTH 229	Introductory Statistics (3) or Statistical Methods (3) or Statistics for Engineers and Scientists (3)	3		STAT 1115 or STAT 3115*	Statistics for the Social Sciences I or Engineering Statistics* *STAT 3115 will be substituted for this requirement.	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 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	28		Group 2 Emphasis/Focus Area Requirements	28	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	55			Total Hours* 53	
*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/secondaryeducation/ .						

Middle School Science Emphasis

<u>Ozarks Technical Community College</u>			<u>Semester</u>	<u>Missouri S&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	
BIO 150	Environmental Science	4	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, 1509 or PHYSICS 1145	Introductory Astronomy (3) and Lab (1) 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 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3	
MTH 129 or MTH 210 or MTH 229	Introductory Statistics (3) or Statistical Methods (3) or Statistics for Engineers and Scientists (3)	3	STAT 1115 or STAT 3115*	Statistics for the Social Sciences I or Engineering Statistics* *STAT 3115 will be substituted for this requirement.	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 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	27		Group 1 Core Requirements	25	
	Total Hours	70		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 https://teachereducation.mst.edu/secondaryeducation/ .						

Middle School Social Sciences Emphasis

<u>Ozarks Technical Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.
CIS 150 or CSC 210 or CSC 140	C# Programming I (3) or Data Structures (4) or C++ Programming (4)	3	IST 1551 or COMP SCI 1500 or COMP SCI 1971/1981*	Implementing Info Systems: User Perspective or Computational Problem Solving or Intro to Programming Methodology and Lab *Department will substitute for this requirement.
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography
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
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
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 Appreciation or Theatre via Video
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
Humanities	Any philosophy, fine art, literature, foreign language	3	Humanities	Any philosophy, fine art, literature, foreign language
	Group 2 Emphasis/Focus Area Requirements	31		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	58		Total Hours*
				56
*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School Social Sciences Emphasis Area.				
Professional Requirements for Teacher Education Program:				
Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .				

Secondary Teaching Art Emphasis						
Ozarks Technical Community College			Semester	Missouri S&T		
ART 120	Drawing I	3	Select 6 hours from at least 2 disciplines.	ART 1120	Drawing I	3
ART 125	Painting I	3		ART 1140	Painting I	3
ART 100	Art and Experience	3		ART 1180	Art Appreciation	3
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
ENG 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or US 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6		ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	3
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3		HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
	Group 2 Emphasis/Focus Area Requirements	19			Group 2 Emphasis/Focus Area Requirements	16
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	46		Total Hours*	41	

*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/secondaryeducation/>.

Secondary Teaching Computer Science Emphasis

Ozarks Technical Community College			Semester	Missouri S&T		
BUS 150	Principles of Management	3	BUS 1110	Intro to Management and Entrepreneurship	3	
BUS 160	Business Law	3	BUS 2910	Business Law	3	
CIS 150	C# Programming I	3	IST 1551	Implement Info Systems: User Perspective	3	
CIS 151	C# Programming II	3	IST 1552	Implement Info Systems: Data Perspective	3	
CIS 101 and CIS 201	Technology and Digital Literacy and Computer Apps for Business BOTH OTC CIS 101 and 102 must be taken to receive credit for Missouri S&T IST 1750.	6	IST 1750	Information Systems BOTH OTC CIS 101 and 102 must be taken to receive credit for Missouri S&T IST 1750.	3	
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6	
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1	
ENG 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or ART 100 or MUS 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6	
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3	
HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	
	Group 2 Emphasis/Focus Area Requirements	37		Group 2 Emphasis/Focus Area Requirements	34	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	64		Total Hours*	59	
*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/secondaryeducation/.						

Secondary Teaching General Science Emphasis

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		BIO SCI 1113, 1219	General Biology and Lab	4
BIO 150 BIO 250	Environmental Science Genetics	4		BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 160, 161 PHY 110	General Chemistry I Intro to Geology	5 4		BIO SCI 1173	Intro to Environmental Sciences	3
				BIO SCI 2223	General Genetics	3
				CHEM 1310, 1319	General Chemistry I and Lab	5
				GEOLOGY 1110	Physical and Environmental Geology	3
PHY 115	Intro to Astronomy	4			Introductory Astronomy (3) and Lab* (1)	
				PHYSICS 1505, 1509*	*PHYSICS 1509 is not a degree requirement; transfers as general elective credit.	3
PHY 120	General Physics I	4		PHYSICS 1145	College Physics I	4
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
ENG 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or ART 100 or MUS 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
	Group 2 Emphasis/Focus Area Requirements	42			Group 2 Emphasis/Focus Area Requirements	38
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	69				Total Hours*
*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/secondaryeducation/ .						

Secondary Teaching Spanish Emphasis

<u>Ozarks Technical Community College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
SPN 101	Beginning Spanish I	3		SPANISH 1101	Elementary Spanish I	3
SPN 102	Beginning Spanish II			SPANISH 1102	Elementary Spanish II	3
SPN 201	Intermediate Spanish I	3		SPANISH 1180	Intermediate Spanish	3
SPN 205	Conversational Spanish	3		SPANISH 2110	Basic Spanish Conversation	3
MTH 128 or MTH 130 or MTH 129 or MTH 210	Contemporary Math or College Algebra or Introductory Statistics or Statistical Methods or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences I or higher math or statistics	3
BIO 100* or BIO 160* or CHM 160, 161* or PHY 120* or PHY 220* or PHY 115* or PHY 110	Life Science* or General Biology I* or General Chemistry I (4) and Lab* (1) or General Physics I* (4) or Physics for Engineers and Scientists I* (5) or Intro to Astronomy* (4) or Intro to Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	Select 6 hours from at least 2 disciplines.	BIO SCI 1113, 1219* or CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505, 1509* or GEOLOGY 1110	General Biology (3) and Lab* (1) or General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) and Lab* (1) or Physical and Environmental Geology (3) or higher science lecture *Lab satisfies science lab requirement below.	6
Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1		Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
ENG 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or ART 100 or MUS 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	6	Select 6 hours from at least 2 disciplines.	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
Group 1 Core Requirements		27		Group 1 Core Requirements		25
Total Hours		27			Total Hours*	25
*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/secondaryeducation/ .						

*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Science Emphasis Area.