

Moberly Area 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.

Moberly Area Community College			Semester	Missouri S&T		
LAL 101	Composition I	3		ENGLISH 1120	Exposition and Argumentation	3
LAL 102 or SPK 101	Composition II or Public Speaking	3		ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
PHI 150 or PHI 151	Intro to Philosophy or Intro to Logic	3		PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
PCS 105 or HST 102	Intro to American Government or Western Civilization II	3		POL SCI 1200 or HISTORY 1200	American Government or Modern Western Civilization	3
EDU 220	Foundations of Education in a Diverse Society	3		EDUC 1074	Education in a Diverse Society	3
EDU 225	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I	1
EDU 245	Educational Psychology	3		EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 205	Human Lifespan Development	3		PSYCH 3310	Developmental Psychology	3
EDU 242	Educational of Exceptional Learners	3		EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or 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							
Moberly Area 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 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or 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 BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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	
GEO 101	World Geography I	3		HISTORY 2110	World Regional Geography	3	
HST 105 or HST 106 or HST 101 or HST 102 or	American History to 1865 or American History from 1865 or Western Civilization I or Western Civilization II or	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	
LAL 252	Children's Literature for the Elementary Teacher	3		EDUC 3430	Diverse Literature for Children	3	
Literature	Literature Elective	3		Literature	Literature Elective	3	
PSY 101	General Psychology	3		PSYCH 1101	General Psychology	3	
ART 101 or ART 102 or MUS 101 or MUS 102	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or 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.							
ECE 110	Foundations of Early Care and Education	3	EDUC 1055	Intro to Early Childhood Education	3		
ECE 120	Nutrition, Safety, and Health	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3		
ECE 270	Management of Early Childhood Programs	3	EDUC 1820	Early Childhood Program Management	3		
ECE 165 and ECE 175	Assessment in Early Childhood I and Assessment in Early Childhood II	2	EDUC 2440	Observation and Assessment of Young Children	3		
ECE 220	Working with Families and the Community	3	EDUC 2401	School, Family, and Community Partnerships	3		
PSY 201	Child Growth and Development	3	EDUC 2211	Child Development	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

Moberly Area Community College		Semester	Missouri S&T	
BIO 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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.
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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
GEO 101	World Geography I	3	HISTORY 2110	World Regional Geography
HST 101	Western Civilization I	3	HISTORY 1100	Early Western Civilization
HST 102	Western Civilization II	3	HISTORY 1200	Modern Western Civilization
HST 105 or HST 106	American History to 1865 or American History from 1865	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877
ECN 102 or ECN 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
LAL 252	Children's Literature for the Elementary Teacher	3	EDUC 3430	Diverse Literature for Children
PSY 101	General Psychology	3	PSYCH 1101	General Psychology
ART 101 or ART 102 or MUS 101 or MUS 102	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Appreciation
	Group 2 Emphasis/Focus Area Requirements	34		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	27		Group 1 Core Requirements
	Total Hours	61		Total Hours*
				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

<u>Moberly Area Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>	
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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.
TC 125 or ITC 243 or ITC 244 or ITC 120 or ITC 220	Object Oriented Programming I or Object Oriented Programming II: Java or Object Oriented Programming II: C# or Programming I or Programming II	3	COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1971* or COMP SCI 197*1	Computational Problem Solving or Computational Problem Solving or Computational Problem Solving or Intro to Programming Methodology* or Intro to Programming Methodology* *Department will substitute for this requirement
ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video
HST 101 or HST 102 or HST 105 or HST 106	Western Civilization I or Western Civilization II or American History to 1865 or American History from 1865	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
ECN 102 or ECN 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
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.
UL Literature	Upper Level Literature Elective	3	UL Literature	Upper Level Literature Elective
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 English Emphasis Area.				
Professional Requirements for Teacher Education Program:				
Please view all program requirements at https://teachereducation.mst.edu/secondaryeducation/ .				

Middle School Mathematics Emphasis

Moberly Area Community College		Semester	Missouri S&T	
BIO 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6	BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics* (4) or Introductory Astronomy (3) 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.
MTH 140	College Algebra	3	MATH 1103	Fundamentals of Algebra
MTH 201	Analytic Geometry and Calculus I	5	MATH 1140	College Algebra
MTH 202	Analytic Geometry and Calculus II	5	MATH 1214	Calculus I
TC 125 or ITC 243 or ITC 244 or ITC 120 or ITC 220	Object Oriented Programming I or Object Oriented Programming II: Java or Object Oriented Programming II: C# or Programming I or Programming II	3	MATH 1215	Calculus II
MATH 160	Elementary Statistics	3	COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1971* or COMP SCI 1971*	Computational Problem Solving or Computational Problem Solving or Computational Problem Solving or Intro to Programming Methodology* or Intro to Programming Methodology* *Department will substitute for this requirement
ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation	3	STAT 1115	Statistics for the Social Sciences I
HST 101 or HST 102 or HST 105 or HST 106	Western Civilization I or Western Civilization II or American History to 1865 or American History from 1865	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video
ECN 102 or ECN 101	Microeconomics or Macroeconomics	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
Humanities	Any philosophy, fine art, literature, foreign language	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
	Group 2 Emphasis/Focus Area Requirements	38	Humanities	Any philosophy, fine art, literature, foreign language
	Group 1 Core Requirements	27		Group 2 Emphasis/Focus Area Requirements
	Total Hours	65		Group 1 Core Requirements
				Total Hours*
				64
*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>Moberly Area Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 101 or BIO 155	Biology or General Biology for Majors I	4	BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab or Principles of Biology and Lab *BIO SCI 1213 will be substituted for 1113.	4
PHY 163	Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 181 or PHY 162	General Astronomy (3) or General Physics I (5)	3	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
PHY 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 142 or MTH 140	Quantitative Reasoning or College Algebra or higher math or statistics	3	MATH 1110 or MATH 1140	Mathematical Reasoning and Modeling or College Algebra or higher math or statistics	3
MTH 160	Elementary Statistics	3	STAT 1115	Statistics for the Social Sciences I	3
ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
HST 101 or HST 102 or HST 105 or HST 106	Western Civilization I or Western Civilization II or American History to 1865 or American History from 1865	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
ECN 102 or ECN 101	Microeconomics or Macroeconomics	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	34		Group 2 Emphasis/Focus Area Requirements	33
	Group 1 Core Requirements	27		Group 1 Core Requirements	25
	Total Hours	61		Total Hours*	58
*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

Moberly Area Community College			Semester	Missouri S&T		
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	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 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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
TC 125 or ITC 243 or ITC 244 or ITC 120 or ITC 220	Object Oriented Programming I or Object Oriented Programming II: Java or Object Oriented Programming II: C# or Programming I or Programming II	3		COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1500 or COMP SCI 1971* or COMP SCI 1971*	Computational Problem Solving or Computational Problem Solving or Computational Problem Solving or Intro to Programming Methodology* or Intro to Programming Methodology* *Department will substitute for this requirement	3
GEO 101	World Geography I	3		HISTORY 2110	World Regional Geography	3
HST 101 or HST 102	Western Civilization I or Western Civilization II	3		HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HST 105 or HST 106	American History to 1865 or American History from 1865	3		HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
ECN 102 or ECN 101	Microeconomics or Macroeconomics	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	31		Group 2 Emphasis/Focus Area Requirements	31	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	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

Moberly Area Community College			Semester	Missouri S&T		
ART 110	Drawing and Composition I	3	Select 6 hours from at least 2 disciplines.	ART 1120	Drawing I	3
ART 201	Painting I	3		ART 1140	Painting I	3
ART 124	Beginning Sculpture	3		ART 1164	Sculpture	3
ART 101 or ART 102	Art Survey and Appreciation I or Art Survey and Appreciation II	3		ART 1180	Art Appreciation	3
BIO 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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
LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120 or Literature	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation 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 ART 1180 or MUSIC 1150 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 Art Appreciation or Music 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
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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	31			Group 2 Emphasis/Focus Area Requirements	28
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	58		Total Hours*	53	
*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

Moberly Area Community College			Semester	Missouri S&T		
ITC 102	Intro to Information Technology	3	Select 6 hours from at least 2 disciplines.	IST 1750	Intro to Management Information Systems	3
ITC 130	Intro to Networks	5		IST 3333	Data Networks and Information Security	3
BIO 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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
LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120 or Literature	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation 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 ART 1180 or MUSIC 1150 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 Art Appreciation or Music 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 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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		27	Group 2 Emphasis/Focus Area Requirements		25	
Group 1 Core Requirements		27	Group 1 Core Requirements		25	
Total Hours		54			Total Hours*	50
*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

<u>Moberly Area Community College</u>		<u>Semester</u>	<u>Missouri S&T</u>		
BIO 101 or BIO 155	Biology or General Biology for Majors I	4	BIO SCI 1113, 1219 or BIO SCI 1213*, 1219	General Biology and Lab or Principles of Biology and Lab *BIO SCI 1213 will be substituted for 1113.	4
BIO 160	General Biology for Majors II	4	BIO SCI 1223, 1229	Biodiversity and Lab	4
PHY 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 163	Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
PPHY 162	General Astronomy	3	PHYSICS 1505	Introductory Astronomy	3
PHY 181	General Physics I	5	PHYSICS 1145	College Physics I	4
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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
LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120 or Literature	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation 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 ART 1180 or MUSIC 1150 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 Art Appreciation or Music 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	34		Group 2 Emphasis/Focus Area Requirements	32
	Group 1 Core Requirements	27		Group 1 Core Requirements	25
	Total Hours	61		Total Hours*	57
*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>Moberly Area Community College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
FLN 101	Elementary Spanish	5	Select 6 hours from at least 2 disciplines.	SPANISH 1101	Elementary Spanish I	3
FLN 102	Intermediate Spanish	5		SPANISH 1102	Elementary Spanish II	3
MTH 142 or MTH 140 or MTH 160	Quantitative Reasoning or College Algebra or Elementary Statistics 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 101* or BIO 155* or PHY 121* or PHY 181* or PHY 201* or PHY 162 or PHY 163	Biology* (4) or General Biology for Majors I* (4) or General Chemistry I* (5) or General Physics I* (5) or Engineering Physics I* (5) or General Astronomy (3) or Geology (4) or higher science lecture *Lab satisfies science lab requirement below.	6		BIO SCI 1113, 1219* or BIO SCI 1213, 1219* CHEM 1310, 1319* or PHYSICS 1145* or PHYSICS 1135* or PHYSICS 1505 or GEOLOGY 1110*	General Biology (3) and Lab* (1) or Principles of Biology (3) and Lab* (1) General Chemistry I (4) and Lab* (1) or College Physics I* (4) or Engineering Physics*(4) or Introductory Astronomy (3) 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	Select 6 hours from at least 2 disciplines.	Science Lab	One lab course from any physical or biological science if not taken with lecture course above.	1
LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120 or Literature	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation 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 ART 1180 or MUSIC 1150 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 Art Appreciation or Music 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	26			Group 2 Emphasis/Focus Area Requirements	22
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	53			Total Hours*	47
*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/ .						