

Jefferson 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>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3	
ENG 102 or COM 110	English Composition II or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3	
PHL 102 or PHL 101	Intro to Philosophy or Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction PHILOS 1115 will be substituted for PHILOS 1105.	3	
PSC 102 or HST 202	US and Missouri Govt. and Constitution or Renaissance to Early Mod Europe MOTR WCIV 102	3	POL SCI 1200 or HISTORY 1200	American Government or Modern Western Civilization MOTR WCIV 102	3	
EDU 210	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3	
EDU 230	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1	
EDU 225	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3	
PSY 201	Child Psychology	3	PSYCH 3310	Developmental Psychology	3	
Total Hours		24	Total Hours 22			

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						
Jefferson 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.						
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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
GEO 103	World Regional Geography	3		HISTORY 2110	World Regional Geography	3
HIST 103 or HIST 104 or HIST 101 or HIST 102	US History I to Reconstruction or US History II from Reconstruction or Ancient and Medieval Civilization or Renaissance to Early Modern Europe MOTR WCIV 102	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
EDU 245	Children's Literature	3		EDUC 3430	Diverse Literature for Children	3
Literature	Literature Elective	3		Literature Elective	3	
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3	
ART 101 or MUS 121	Art Appreciation or Appreciation of Music	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 102	Intro to Early Childhood Education	4	EDUC 1055	Intro to Early Childhood Education	3	
ECE 103	Child Health, Nutrition, and Safety	3	EDUC 1221	Health, Nutrition, and Safety in Early Childhood Education	3	
ECE 214	Early Childhood Education Administration	3	EDUC 1820	Early Childhood Program Management	3	
ECE 212	Family, School, and Community Relations	3	EDUC 2401	School, Family, and Community Partnerships	3	
PSY 201	Child Development	3	EDUC 2211	Child Development	3	
	Group 2 Emphasis/Focus Area Requirements	37		Group 2 Emphasis/Focus Area Requirements	39	
	Group 1 Core Requirements	24		Group 1 Core Requirements	22	
	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

Jefferson College		Semester	Missouri S&T	
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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.
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics
GEO 103	World Regional Geography	3	HISTORY 2110	World Regional Geography
HST 201	Ancient and Medieval Civilization	3	HISTORY 1100	Early Western Civilization
HST 202	Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1200	Modern Western Civilization MOTR WCIV 102
HST 103 or HST 104	US History I to Reconstruction or US History II from Reconstruction	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877
ECO 102 or ECO 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics
EDU 245	Children's Literature	3	EDUC 3430	Diverse Literature for Children
PSY 101	General Psychology	3	PSYCH 1101	General Psychology
ART 101 or MUS 121	Art Appreciation or Appreciation of Music	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	24		Group 1 Core Requirements
	Total Hours	58		Total Hours*
				56

*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

Jefferson College		Semester	Missouri S&T		
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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 155	Intro to Computer Programming	3	COMP SCI 1971, 1981*	Intro to C++ Programming* *Department will substitute for this requirement.	3
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
HIST 103 or HIST 104 or HIST 101 or HIST 102	US History I to Reconstruction or US History II from Reconstruction or Ancient and Medieval Civilization or Renaissance to Early Modern Europe MOTR WCIV 102	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 MOTR WCIV 102 .	3
ECO 102 or ECO 101	Microeconomics or Macroeconomics	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	31		Group 2 Emphasis/Focus Area Requirements	31
	Group 1 Core Requirements	24		Group 1 Core Requirements	22
	Total Hours	55		Total Hours*	53
*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

Jefferson College		Semester	Missouri S&T	
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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.
MTH 128	Intermediate Algebra	3	MATH 1103	Fundamentals of Algebra
MTH 134	College Algebra	3	MATH 1140	College Algebra
MTH 180	Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.
MTH 185 or MTH 161	Calculus II or Calculus for Business and Social Sciences	3	MATH 1215 or MATH 1212	Calculus II (4) or Survey of Calculus (4)
CIS 155	Intro to Computer Programming	3	COMP SCI 1971/1981*	Intro to C++ Programming* *Department will substitute for this requirement.
BUS 168 or MTH 132 or MTH 168	Business Statistics or Introductory Statistics or Probability and Statistics	3	STAT 1115	Statistics for the Social Sciences I
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video
HIST 103 or HIST 104 or HIST 101 or HIST 102	US History I to Reconstruction or US History II from Reconstruction or Ancient and Medieval Civilization or Renaissance to Early Modern Europe MOTR WCIV 102	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 MOTR WCIV 102
ECO 102 or ECO 101	Microeconomics or Macroeconomics	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	39		Group 2 Emphasis/Focus Area Requirements
	Group 1 Core Requirements	24		Group 1 Core Requirements
	Total Hours	63		Total Hours*
				61
*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

Jefferson College		Semester	Missouri S&T		
BIO 101 or BIO 103	General Biology (5) or Biology for Majors I (4)	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 109	Ecology and Environmental Conservation	3	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 201	Genetics	4	BIO SCI 2223	General Genetics	3
PHY 105	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 106 or PHY 111	Intro to Astronomy or Elementary College Physics I	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 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
BUS 168 or MTH 132 or MTH 168	Business Statistics or Introductory Statistics or Probability and Statistics	3	STAT 1115	Statistics for the Social Sciences I	3
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
HIST 103 or HIST 104 or HIST 101 or HIST 102	US History I to Reconstruction or US History II from Reconstruction or Ancient and Medieval Civilization or Renaissance to Early Modern Europe MOTR WCIV 102	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 MOTR WCIV 102	3
ECO 102 or ECO 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	43		Group 2 Emphasis/Focus Area Requirements	39
	Group 1 Core Requirements	24		Group 1 Core Requirements	22
	Total Hours	67		Total Hours*	61
*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

Jefferson College			Semester	Missouri S&T		
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	Select 6 hours from at least 2 disciplines.	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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 155	Intro to Computer Programming	3		COMP SCI 1971, 1981	Intro to C++ Programming	3
GEO 103	World Regional Geography	3		HISTORY 2110	World Regional Geography	3
HIST 101 or HIST 102	Ancient and Medieval Civilization or Renaissance to Early Modern Europe MOTR WCIV 102	3		HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization MOTR WCIV 102	3
HST 103 or HST 104	US History I to Reconstruction or US History II from Reconstruction	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3	
ART 101 or MUS 121 or THT 100	Art Appreciation or Appreciation of Music or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3	
ECO 102 or ECO 101	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	28		Group 2 Emphasis/Focus Area Requirements	28	
	Group 1 Core Requirements	24		Group 1 Core Requirements	22	
	Total Hours	52			Total Hours*	50

*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

Jefferson College		Semester	Missouri S&T		
ART 115	Drawing I	3	ART 1120	Drawing I	3
ART 141	Painting I	3	ART 1140	Painting I	3
ART 101	Art Appreciation	3	ART 1180	Art Appreciation	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
ENG 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215 or HST 103* or HST 104* or MUS 121 or THT 100 or Literature	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650 or US History I to Reconstruction* or US History II from Reconstruction* or Appreciation of Music or Theatre Appreciation or Any literature with prerequisite of no more than English Composition I. *Satisfies the State of Missouri government requirement.	3	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 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	28		Group 2 Emphasis/Focus Area Requirements	28
	Group 1 Core Requirements	24		Group 1 Core Requirements	22
	Total Hours	52		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 Computer Science Emphasis

Jefferson College			Semester	Missouri S&T		
BUS 120	Principles Management	3		BUS 1110	Intro to Management and Entrepreneurship	3
BUS 265	Business Law	3		BUS 2910	Business Law	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215 or HST 103* or HST 104* or ART 101 or MUS 121 or THT 100 or Literature	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650 or US History I to Reconstruction* or US History II from Reconstruction* or Art Appreciation or Appreciation of Music 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 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 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences 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	25			Group 2 Emphasis/Focus Area Requirements	25
	Group 1 Core Requirements	24			Group 1 Core Requirements	22
	Total Hours	49			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/.						

Professional Requirements for Teacher Education Program:
Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

Secondary Teaching General Science Emphasis

Jefferson College			Semester	Missouri S&T		
BIO 101 or BIO 103	General Biology (5) or Biology for Majors I (4)	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 109	Ecology and Environmental Conservation	3		BIO SCI 1173	Intro to Environmental Sciences	3
BIO 201	Genetics	4		BIO SCI 2223	General Genetics	3
CHM 111	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
PHY 105	Physical Geology	5		GEOLOGY 1110	Physical and Environmental Geology	3
PHY 106	Intro to Astronomy	4		PHYSICS 1505	Introductory Astronomy	3
PHY 111	Elementary College Physics I	4		PHYSICS 1145	College Physics I	4
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
ENG 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215 or HST 103* or HST 104* or ART 101 or MUS 121 or THT 100 or Literature	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650 or US History I to Reconstruction* or US History II from Reconstruction* or Art Appreciation or Appreciation of Music or Theatre Appreciation 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	38			Group 2 Emphasis/Focus Area Requirements	34
	Group 1 Core Requirements	24			Group 1 Core Requirements	22
	Total Hours	62			Total Hours*	56
*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

Jefferson College			Semester	Missouri S&T		
SPN 101	Beginning Spanish	5		SPANISH 1101	Elementary Spanish I	3
SPN 102	Intermediate Spanish	5		SPANISH 1102	Elementary Spanish II	3
MTH 131 or MTH 134 or MTH 132 or BUS 168	Quantitative Reasoning or College Algebra or Introductory Statistics or Business Statistics or higher math or statistics	3		MATH 1110 or MATH 1140 or STAT 1115 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or Statistics for the Social Sciences or higher math or statistics	3
BIO 101* or BIO 103* or CHM 111 or PHY 111* or PHY 223* or PHY 106* or PHY 105	General Biology* (5) or Biology for Majors I* (4) or General Chemistry I* (5) or Elementary College Physics I* MOTR 150L (5) or General Physics I* (4) or Intro to Astronomy* (4) or Physical 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, 1509* 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) 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 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215 or HST 103* or HST 104* or ART 101 or MUS 121 or THT 100 or Literature	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650 or US History I to Reconstruction* or US History II from Reconstruction* or Art Appreciation or Appreciation of Music or Theatre Appreciation 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	26			Group 2 Emphasis/Focus Area Requirements	22
	Group 1 Core Requirements	24			Group 1 Core Requirements	22
	Total Hours	24			Total Hours*	22
*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/ .						