

**Jefferson College — Missouri S&T**  
**Early Childhood, Elementary, and Middle School Teacher Education Transfer Guide**  
 Effective as of Fall 2021

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

**Group 1 - Core Requirements: All Emphasis/Focus Areas Take All Courses**

Education students take all Group 1 - Core Requirements and Group 2 - Emphasis Area Requirements for major of choice.

<u>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&amp;T</u>		
ENG 101	English Composition I	3	ENG 1120	Exposition and Argumentation	3	
ENG 102	Composition and Rhetoric II	3	ENG 1160	Writing and Research	3	
COM 110	Public Speaking	3	SP&MS 1185	Principles of Speech	3	
ENG 130 or ENG 175 or ENG 215	English Life and Literature I or American Literature I or World Literature before 1650 <small>(or other literature elective)</small>	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I <small>(or other literature elective)</small>	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	3	
GEO 103	World Regional Geography	3	HISTORY 2110	World Regional Geography	3	
PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3	
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3	
EDU 210	Foundations of Education	3	EDUC 1040	Perspectives in Education	3	
EDU 225	Educational Psychology	3	PSYCH 2300	Educational Psychology	3	
PSY 201	Child Psychology	3	PSYCH 3310	Developmental Psychology	3	
Total Hours					33	

**Group 2 - Emphasis/Focus Area Requirements:  
Take All Courses for Emphasis/Focus of Choice**

Middle School Teacher Education students take all Group 1 - Core Requirements (above) and Group 2 - Emphasis Area Requirements for chosen emphasis area from list below. See course requirements on following pages.

- Early Childhood**
- Elementary Education STEM Focus**
- Middle School English Emphasis**
- Middle School Mathematics Emphasis**
- Middle School Science Emphasis**
- Middle School Social Studies Emphasis**

Middle School Teacher Education Emphasis Area Requirements are detailed on the following pages.

**Humanities/Social Science (HSS) Electives:** HSS electives may include any history, economics, political science, sociology, psychology, philosophy, fine art, literature, or foreign language. Missouri S&T approved HSS courses are listed at [ugs.mst.edu](http://ugs.mst.edu). Your campus may have additional acceptable options. Consult with your advisor or email [transfer@mst.edu](mailto:transfer@mst.edu) with questions.

## Early Childhood

Jefferson College		Semester	Missouri S&T		
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
CHM 111 or	General Chemistry I or	5	CHEM 1310, 1319 or	General Chemistry I and Lab or	5 or
PHY 105	Physical Geology		GEOLOGY 1110	Physical and Environmental Geology	3
MTH 134	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or	Elementary College Physics I or		PHYSICS 1145 or	College Physics I or	
PHY 106	Intro to Astronomy	4	PHYSICS 1505	Astronomy	3
HIST 101 or	Ancient and Medieval Civilization or		HISTORY 1100 or	Early Western Civilization or	
HIST 102 or	Renaissance to Early Modern Europe or		HISTORY 1200 or	Modern Western Civilization or	
HIST 103 or	US History I or	3	HISTORY 1300 or	American History to 1877 or	3
HIST 104	US History II		HISTORY 1310	American History since 1877	
EDU 245	Children's Literature	3	EDUC 3430	Children's Literature	3
ART 101 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUS 121	Appreciation of Music		MUSIC 1150	Music Understanding and Appreciation	3
	Group 2 Major Requirements	26		Group 2 Major Requirements	20
	Group 1 Core Requirements	33		Group 1 Core Requirements	33
	Total Hours	59		Total Hours*	53

\*S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Early Childhood Emphasis Area.

**Professional Requirements for Teacher Education Program: Please view all Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/earlychildhood/>.**

## Elementary Education STEM Focus

Jefferson College		Semester	Missouri S&T		
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
CHM 111 or	General Chemistry I or	5	CHEM 1310, 1319 or	General Chemistry I and Lab or	5 or
PHY 105	Physical Geology		GEOLOGY 1110	Physical and Environmental Geology	3
MTH 134	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or	Elementary College Physics I or		PHYSICS 1145 or	College Physics I or	
PHY 106	Intro to Astronomy	4	PHYSICS 1505	Astronomy	3
HIST 101	Ancient and Medieval Civilization	4	HISTORY 1100	Early Western Civilization	3
HIST 102	Renaissance to Early Modern Europe	3	HISTORY 1200	Modern Western Civilization	3
HIST 103 or	US History I or	3	HISTORY 1300 or	American History to 1877 or	3
HIST 104	US History II		HISTORY 1310	American History since 1877	
ECO 102 or	Microeconomics or		ECON 1100 or	Principles of Microeconomics or	
ECO 101	Macroeconomics	3	ECON 1200	Principles of Macroeconomics	3
EDU 245	Children's Literature	3	EDUC 3430	Children's Literature	3
ART 101 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUS 121	Appreciation of Music		MUSIC 1150	Music Understanding and Appreciation	3
	World History Elective	3		World History Elective	3
	American History Elective	3		American History Elective	3
	Group 2 Major Requirements	42		Group 2 Major Requirements	35
	Group 1 Core Requirements	33		Group 1 Core Requirements	33
	Total Hours	75		Total Hours*	68

\*S&T advisor permission is required to transfer more than 63 credits toward the S&T degree for the Elementary Emphasis Area.

**Professional Requirements for Teacher Education Program: Please view all Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/elementaryeducation/>.**

## Middle School Language Arts Emphasis Area

<u>Jefferson College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
MTH 128 or	Intermediate Algebra or	3	MATH 1103 or	Fundamentals of Algebra or
MTH 134	College Algebra (or higher level math)		MATH 1140	College Algebra
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)
PHY 105 or	Physical Geology (3) or		GEOLOGY 1110 or	Physical and Environmental Geology (3) or
PHY 106 or	Intro to Astronomy (3) or	3	PHYSICS 1505 or	Introductory Astronomy (3) or
CHM 111	General Chemistry I (5)		CHEM 1310	General Chemistry (4)
CIS 155	Intro to Computer Programming	3	CS 1971/1981	Intro to C++ Programming
ART 1180 or	Art Appreciation or		ART 1180 or	Art Appreciation or
MUSIC 1150 or	Appreciation of Music or	3	MUSIC 1150 or	Music Understanding and Appreciation or
THEATRE 1190	Intro to Theatre		THEATRE 1190	Theatre via Video
ECO 102 or	Microeconomics or		ECON 1100 or	Principles of Microeconomics or
ECO 101	Macroeconomics	3	ECON 1200	Principles of Macroeconomics
Literature Elective	Literature Elective	3	Literature Elective	Literature Elective
UL Literature Elective	Upper Level Literature Elective	3	UL Literature Elective	Upper Level Literature Elective
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language
	Group 2 Major Requirements	29		Group 2 Major Requirements
	Group 1 Core Requirements	33		Group 1 Core Requirements
	Total Hours	62		Total Hours*
				62

\*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School English Emphasis Area.

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

## Middle School Mathematics Emphasis Area

<u>Jefferson College</u>		<u>Semester</u>	<u>Missouri S&amp;T</u>	
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)
PHY 105	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology
PHY 106 or	Intro to Astronomy (3) or		PHYSICS 1505 or	Introductory Astronomy (3) or
PHY 111 or	Elementary College Physics I (5) or	3	PHYSICS 1145 or	College Physics I (4) or
CHM 111	General Chemistry I (5)		CHEM 1310	General Chemistry (4)
MTH 128	Intermediate Algebra	3	MATH 1103	Fundamentals of Algebra
MTH 134	College Algebra (or higher level math)	3	MATH 1140	College Algebra
MTH 133	Trigonometry	3	MATH 1160	Trigonometry
MTH 180	Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.
MTH 185 or	Calculus II or		MATH 1215 or	Calculus II (4) or
MTH 161	Calculus for Business and Social Sciences	3	MATH 1212	Survey of Calculus (4)
CIS 155	Intro to Computer Programming	3	CS 1971/1981	Intro to C++ Programming
BUS 168 or	Business Statistics or			
MTH 132 or	Introductory Statistics or	3	STAT 1115	Statistics for the Social Sciences I
MTH 168	Probability and Statistics			
ART 1180 or	Art Appreciation or		ART 1180 or	Art Appreciation or
MUSIC 1150 or	Appreciation of Music or	3	MUSIC 1150 or	Music Understanding and Appreciation or
THEATRE 1190	Intro to Theatre		THEATRE 1190	Theatre via Video
ECO 102 or	Microeconomics or		ECON 1100 or	Principles of Microeconomics or
ECO 101	Macroeconomics	3	ECON 1200	Principles of Macroeconomics
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language
	Group 2 Major Requirements	45		Group 2 Major Requirements
	Group 1 Core Requirements	33		Group 1 Core Requirements
	Total Hours	78		Total Hours*
				75

\*S&T advisor permission is required to transfer more than 60 credits toward the S&T degree for Middle School Math Emphasis Area.

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

## Middle School Science Emphasis Area

Jefferson College		Semester	Missouri S&T		
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
BIO 109	Ecology and Environmental Conservation	3	BIOL 1173	Intro to Environmental Sciences	3
BIO 201	Genetics	4	BIOL 2223	General Genetics	3
PHY 105	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 111 or	Elementary College Physics I or	4	PHYSICS 1145 or	College Physics I or	3
PHY 106	Intro to Astronomy		PHYSICS 1505	Astronomy	
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 128 or	Intermediate Algebra or	3	MATH 1103 or	Fundamentals of Algebra or	3
MTH 134	College Algebra (or higher level math)		MATH 1140	College Algebra	
BUS 168 or	Business Statistics or	3	STAT 1115	Statistics for the Social Sciences I	3
MTH 132 or	Introductory Statistics or				
MTH 168	Probability and Statistics				
GEO 103	World Regional Geography	3	HISTORY 2110	World Regional Geography	3
ART 1180 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUSIC 1150 or	Appreciation of Music or		MUSIC 1150 or	Music Understanding and Appreciation or	
THEATRE 1190	Intro to Theatre		THEATRE 1190	Theatre via Video	
ECO 102 or	Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECO 101	Macroeconomics		ECON 1200	Principles of Macroeconomics	
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements	44		Group 2 Major Requirements	40
	Group 1 Core Requirements	33		Group 1 Core Requirements	33
	Total Hours	77		Total Hours*	73

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

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

## Middle School Social Studies Emphasis Area

Jefferson College		Semester	Missouri S&T		
BIO 101	General Biology	5	BIOL 1113, 1219	General Biology (3) and Lab (2)	5
PHY 105 or	Physical Geology (5) or	3	GEOLOGY 1110 or	Physical and Environmental Geology (3) or	3
PHY 106 or	Intro to Astronomy (3) or		PHYSICS 1505 or	Introductory Astronomy (3) or	
PHY 111 or	Elementary College Physics I (5) or		PHYSICS 1145 or	College Physics I (4) or	
CHM 111	General Chemistry I (5)	3	CHEM 1310	General Chemistry (4)	3
MTH 128 or	Intermediate Algebra or	3	MATH 1103 or	Fundamentals of Algebra or	3
MTH 134	College Algebra (or higher level math)		MATH 1140	College Algebra	
CIS 155	Intro to Computer Programming	3	CS 1971/1981	Intro to C++ Programming	3
HIST 101 or	Ancient and Medieval Civilization or	3	HISTORY 1100 or	Early Western Civilization or	3
HIST 102	Renaissance to Early Modern Europe		HISTORY 1200	Modern Western Civilization	
HIST 103 or	US History I or	3	HISTORY 1300 or	American History to 1877 or	3
HIST 104	US History II		HISTORY 1310	American History since 1877	
ART 1180 or	Art Appreciation or	3	ART 1180 or	Art Appreciation or	3
MUSIC 1150 or	Appreciation of Music or		MUSIC 1150 or	Music Understanding and Appreciation or	
THEATRE 1190	Intro to Theatre		THEATRE 1190	Theatre via Video	
ECO 102 or	Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3
ECO 101	Macroeconomics		ECON 1200	Principles of Macroeconomics	
World History	World History Elective	3	World History	World History Elective	3
American History	American History Elective	3	American History	American History Elective	3
Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3	Humanities Elective	Humanities: philosophy, fine art, literature, foreign language	3
	Group 2 Major Requirements	35		Group 2 Major Requirements	35
	Group 1 Core Requirements	33		Group 1 Core Requirements	33
	Total Hours	68		Total Hours*	68

\*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School Social Studies Emphasis Area.

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