

Jefferson College — Missouri S&T
Education BS with Early Childhood, Elementary, or Middle School Teacher Education
 Transfer Guide Effective as of Fall 2025

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

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

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

<u>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
ENG 101	English Composition I	3		ENG 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3		ENG 1160	Writing and Research	3
COM 110	Public Speaking	3		SP&MS 1185	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	3
PSC 102	US and Missouri Govt. and Constitution	3		POL SCI 1200	American Government	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	27			Total Hours
						25

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

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

Early Childhood
Elementary Education STEM Focus
Middle School English Emphasis
Middle School Mathematics Emphasis
Middle School Science Emphasis
Middle School Social Sciences Emphasis

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

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

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.

BIO 101	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
CHM 111 or PHY 105	General Chemistry I or Physical Geology	5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit. Department will substitute CHEM 1310, 1319 or GEOLOGY 1120 for this requirement.	3
MTH 128 or MTH 134	Intermediate Algebra or College Algebra or higher level math	3	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra or higher level math Department will substitute MATH 1103 for MATH 1140.	3
PHY 111 or PHY 106	Elementary College Physics I MOTR 150L or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I MOTR 150L (4) or Astronomy (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
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 MOTR WCIV 102 *Department will substitute HISTORY 1100 or 1200 for this requirement.	3
EDU 245	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 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 Understanding and Appreciation	3

Additional Degree Requirements

It is recommended that AAS or Certificate Program students who have completed the coursework below work closely with their community college/transfer school advisor to complete selected courses from the Recommended Transfer Coursework section and the Group 1 - Core Requirements section to total no more than the maximum of 61 transferable credits.

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	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 Professional Standing and Curriculum requirements at <https://teachereducation.mst.edu/earlychildhood/>.

Elementary Education STEM Focus

<u>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 101	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
CHM 111 or PHY 105	General Chemistry I or Physical Geology	5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit. Department will substitute CHEM 1310, 1319 or GEOLOGY 1120 for this requirement.	3	
MTH 128 or MTH 134	Intermediate Algebra or College Algebra or higher math	3	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra or higher math Department will substitute MATH 1103 for MATH 1140.	3	
PHY 111 or PHY 106	Elementary College Physics I MOTR PHYS 150L or Intro to Astronomy	4	PHYSICS 1145* or PHYSICS 1505	College Physics I MOTR PHYS 150L (4) or Astronomy (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3	
GEO 103	World Regional Geography	3	HISTORY 2110	World Regional Geography	3	
HST 201	Ancient and Medieval Civilization	3	HISTORY 1100	Early Western Civilization	3	
HST 202	Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1200	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	
ECO 102 or ECO 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3	
EDU 245	Children's Literature	3	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	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 Understanding and Appreciation	3	
	Group 2 Emphasis/Focus Area Requirements	41		Group 2 Emphasis/Focus Area Requirements	37	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	68		Total Hours*	62	
			*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

Jefferson College			Semester	Missouri S&T		
MTH 128 or	Intermediate Algebra or	3	MATH 1103 or	Fundamentals of Algebra or	3	
MTH 134	College Algebra		MATH 1140	College Algebra		
BIO 101	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
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	3	
CHM 111	General Chemistry I (5)		CHEM 1310	General Chemistry (4)		
				Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.		
CIS 155	Intro to Computer Programming	3	CS 1971/1981*	Intro to C++ Programming*	3	
				*Department will substitute for this requirement.		
ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or		
MUS 121 or	Appreciation of Music or	3	MUSIC 1150 or	Music Understanding and Appreciation or	3	
THT 100	Theatre Appreciation		THEATRE 1190	Theatre via Video		
HIST 103 or	US History I to Reconstruction or		HISTORY 1300 or	American History to 1877 or		
HIST 104 or	US History II from Reconstruction or	3	HISTORY 1310 or	American History since 1877 or	3	
HIST 101 or	Ancient and Medieval Civilization or		HISTORY 1100 or	Early Western Civilization or		
HIST 102	Renaissance to Early Modern Europe	MOTR WCIV 102	HISTORY 1200 or	Modern Western Civilization	MOTR WCIV 102	
ECO 102 or	Microeconomics or	Macroeconomics 3	ECON 1100 or	Principles of Microeconomics or	3	
ECO 101			ECON 1200	Principles of Macroeconomics		
Literature	Literature Elective	3	Literature	Literature Elective	3	
UL Literature	Upper Level Literature Elective	3	UL Literature	Upper Level Literature Elective	3	
Humanities	Any philosophy, fine art, literature, foreign language	3	Humanities	Any philosophy, fine art, literature, foreign language	3	
	Group 2 Emphasis/Focus Area Requirements	32		Group 2 Emphasis/Focus Area Requirements	31	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	59		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/middleschool/ .						

*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

Jefferson College			Semester	Missouri S&T		
BIO 101	General Biology	5	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4	
PHY 105	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3	
PHY 106 or PHY 111 or CHM 111	Intro to Astronomy (3) or Elementary College Physics I (5) or General Chemistry I (5)	3	PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Introductory Astronomy (3) or College Physics I (4) or General Chemistry I (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3	
MTH 128	Intermediate Algebra	3	MATH 1103	Fundamentals of Algebra	3	
MTH 134	College Algebra	3	MATH 1140	College Algebra	3	
MTH 180	Calculus I	5	MATH 1214	Calculus I Grade of C or better is required.	4	
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)	4	
CIS 155	Intro to Computer Programming	3	CS 1971/1981*	Intro to C++ Programming* *Department will substitute for this requirement.	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	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	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	45		Group 2 Emphasis/Focus Area Requirements	42	
	Group 1 Core Requirements	27		Group 1 Core Requirements	25	
	Total Hours	72		Total Hours*	67	

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

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

Middle School Science Emphasis Area

<u>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 101	General Biology	5		BIOL 1113, 1219	General Biology (3) and Lab (1)	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 128 or MTH 134	Intermediate Algebra or College Algebra	3		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	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 ECON 1100 or ECON 1200	American History to 1877 or American History since 1877 or Early Western Civilization or Modern Western Civilization MOTR WCIV 102 . Principles of Microeconomics or Principles of Macroeconomics	3
ECO 102 or ECO 101	Microeconomics or 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	39
	Group 2 Emphasis/Focus Area Requirements	44			Group 1 Core Requirements	25
	Group 1 Core Requirements	27			Total Hours*	64
	Total Hours	71				

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

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

Middle School Social Sciences Emphasis Area

<u>Jefferson College</u>			<u>Semester</u>	<u>Missouri S&T</u>		
BIO 101	General Biology	5		BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
PHY 105 or PHY 106 or PHY 111 or CHM 111	Physical Geology (5) or Intro to Astronomy (3) or Elementary College Physics I (5) or General Chemistry I (5)	3		GEOLOGY 1110 or PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Physical and Environmental Geology (3) or Introductory Astronomy (3) or College Physics I (4) or General Chemistry (4) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
MTH 128 or MTH 134	Intermediate Algebra or College Algebra	3		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
CIS 155	Intro to Computer Programming	3		CS 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			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	29			Group 2 Emphasis/Focus Area Requirements	31
	Group 1 Core Requirements	27			Group 1 Core Requirements	25
	Total Hours	56			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.