## St. Louis Community 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.

	Education students take all Group 1 - Co	re Kequirein	ents and Grot	up z - Emphasis Area	Requirements for major of choice.		
	St. Louis Community College		Semester		Missouri S&T		
ENG 101	College Composition I	3		ENG 1120	Exposition and Argumentation		3
ENG 102	College Composition II	3		ENG 1160	Writing and Research		3
COM 107	Public Speaking	3		SP&MS 1185	Principles of Speech		3
PHL 101 or PHL 102	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
PSC 101	Intro to American Politics	3		POL SCI 1200	American Government		3
EDU 211	Foundations of Education in a Diverse Society	3		EDUC 1074	Education in a Diverse Society		3
EDU 210	Teaching Profession with Field Experience	3		EDUC 1104	Teacher Field Experience I		1
EDU 227	Educational Psychology	3		EDUC 2102 or PSYCH 2300	Educational Psychology		3
PSY 205	Human Growth and Development	3		PSYCH 3310	Developmental Psychology		3
EDU 219	Education of Exceptional Learners	3		EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child		3
	Total	Hours 30				Total Hours	28

## **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** St. Louis Community College Missouri S&T Semester **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 111 Introductory Biology I BIO SCI 1113 1219 General Biology (3) and Lab (1) General Chemistry I and Lab (5) or Physical and Environmental Geology (3) CHM 105 or General Chemistry I or CHEM 1310 1319 or 5 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. **GEO 111** Physical Geology **GEOLOGY 1110** Fundamentals of Algebra or MTH 140 or Intermediate Algebra or MATH 1103 or 3 3 College Algebra or higher math MTH 160 College Algebra or higher math MATH 1140 College Physics I (4) or PHYSICS 1145 or PHY 111 or College Physics Lor Astronomy (3) 3 4 PHYSICS 1505 PSI 111 Intro to Astronomy Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit. **GEG 101** Regional Geography 3 HISTORY 2110 World Regional Geography 3 American History to 1877 or US History to 1865 or HISTORY 1300 or HST 101 or American History since 1877 or HST 102 or US History 1865 to Present or HISTORY 1310 or 3 Early Western Civilization or 3 HST 115 or Ancient and Medieval History to 1500 or HISTORY 1100\* or Modern Western Civilization or **HST 128** Western Civilization 1500 to Present HISTORY 1200\* or \*Department will substitute HISTORY 1100 or 1200 for this requirement FDUC 3430 or Diverse Literature for Children or ENG 226 Children's Literature 3 3 ENGLISH 2240 Children's Literature Literature Elective 3 3 Literature Literature Literature Elective **PSY 200** General Psychology I 3 **PSYCH 1101** General Psychology 3 ART 100 or Art Appreciation or ART 1180 or Art Appreciation or 3 3 MUS 114 Music Appreciation **MUSIC 1150** Music Understanding and Appreciation Additional Degree Requirements It is recommended that AAS or Certificate Program students who have completed the coursework below work closely with their community collee/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. CFD 101 **EDUC 1055** 3 Foundations of Child and Family Development 3 Intro to Early Childhood Education CFD 103 Child Nutrition, Health, and Safety 3 **EDUC 1221** Health, Nutrition, and Safety in Early Childhood Education 3 CFD 209 **EDUC 1820** Early Childhood Program Management Management of Early Childhood Settings 3 3 CFD 107 Family/Community Support and Engagement 3 **EDUC 2401** School, Family, and Community Partnerships 3 CFD 102 Child Growth and Development 3 **FDUC 2211** Child Development 3 Group 2 Emphasis/Focus Area Requirements 31 Group 2 Emphasis/Focus Area Requirements 33 Group 1 Core Requirements 30 Group 1 Core Requirements 28 **Total Hours** Total Hours\* \*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/.

	Elemer	itary	EC	lucatio	n STEM F	ocus	
	St. Louis Community College			Semester		Missouri S&T	
BIO 111 BIO 141	Introductory Biology I Principles of Biology II		4		BIO SCI 1113, 1219 BIO SCI 1223, 1229	General Biology (3) and Lab (1) Biodiversity and Lab	4
CHM 105 or GEO 111	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 GEOLOGY 1120 for this requirement.	3
MTH 140 or MTH 160	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 PSI 111	College Physics I or Intro to Astronomy		4		PHYSICS 1145* or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
GEG 101	Regional Geography		3	F	HISTORY 2110	World Regional Geography	3
HST 115	Ancient and Medieval History to 1500		3	F	HISTORY 1100	Early Western Civilization	3
HST 128	Western Civilization 1500 to Present		3	H	HISTORY 1200	Modern Western Civilization	3
HST 101 or HST 102	US History to 1865 or US History 1865 to Present		3		HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics		3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomice	3
ENG 226	Children's Literature		3	_	EDUC 3430 or ENGLISH 2240	Diverse Literature for Children or Children's Literature	3
PSY 200	General Psychology I		3	F	PSYCH 1101	General Psychology	3
ART 100 or MUS 114	Art Appreciation or Music Appreciation		3		ART 1180 or MUSIC 1150	Art Appreciation or  Music Understanding and Appreciation	3
	Group 2 Emphasis/Focus Area Requirements		44			Group 2 Emphasis/Focus Area Requirements	41
	Group 1 Core Requirements		30			Group 1 Core Requirements	28
	To	otal Hours	74			Total Hours* *S&T advisor permission is required to transfer more than 63 credits toward the S&T degree for the Elementary Emphasis Area.	69

	Middle School L	ang	guage	<b>Arts Emph</b>	asis Area	
MTH 140 or MTH 160	St. Louis Community College Intermediate Algebra or College Algebra	3	Semester	MATH 1103 or MATH 1140	Missouri S&T Fundamentals of Algebra or College Algebra	3
BIO 111	Introductory Biology I	4		BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
GEO 111 or PSI 111 or CHM 105	Physical Geology (5) or Intro to Astronomy I (3) or General Chemistry I (5)	3		GEOLOGY 1110 or PHYSICS 1505 or CHEM 1310	Physical and Environmental Geology (3) or Introductory Astronomy (3) or General Chemistry (4) Satisfies the 3-hour science requirement. Any additional credit hours apply to degree totals as general elective credit.	3
IS 153 or IS 187 or IS 280 or ESC 101 or IS 167 or IS 267	C#Programming (4) or Java Programming I (4) or Python (3) or Scientific Computer Programming (3) or C++ Programming I (40 or C++ Programming II	3-4		IST 1551 or CS 1500 or CS 1500 or CS 1971, 1981* or CS 1971, 1981* or CS 1971, 1981*	Implementing Info Systems: User Perspective or Computational Problem Solving or Computational Problem Solving or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab  'Department will substitute for this requirement.	3
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
HST 115 or HST 128 or HST 101 or HST 102	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present or US History to 1865 or US History 1865 to Present	3		HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomice	3
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	28			Group 2 Emphasis/Focus Area Requirements	31
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	58			Total Hours*  *S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School English Emphasis Area.	59
Professional Requi	irements for Teacher Education Program: Please view all program	gram	requirements	s at https://teachereduca	ation.mst.edu/middleschool/.	

	Middle School	Ma	thematics Emph	asis Area	
	St. Louis Community College		Semester	Missouri S&T	
BIO 111	Introductory Biology I	4	BIO SCI 1113, 1219	General Biology (3) and Lab (1)	4
GEO 111	Physical Geology	5	GEOLOGY 1110	Physical and Environmental Geology	3
PSI 111 or PHY 111 or CHM 105	Intro to Astronomy (5) or College Physics I (4) or General Chemistry I (5)	4	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 140	Intermediate Algebra	3	MATH 1103	Fundamentals of Algebra	3
MTH 160	Precalculus Algebra	3	MATH 1140	College Algebra	3
MTH 210	Analytic Geometry and Calculus I	5	MATH 1208 or MATH 1214	Calculus with Analytic Geometry I (5) or Calculus I (4)	4
MTH 220 or MTH 186	Analytic Geometry and Calculus II (5) or Survey Calculus (4)	4	MATH 1221 or MATH 1215 or MATH 1212	Calculus with Analytic Geometry II (5) or Calculus II (4) or Survey of Calculus (4)	4
IS 153 or IS 187 or IS 280 or ESC 101 or IS 167 or IS 267	C#Programming (4) or Java Programming I (4) or Python (3) or Scientific Computer Programming (3) or C++ Programming I (40 or C++ Programming II	3-4	IST 1551 or CS 1500 or CS 1500 or CS 1971, 1981* or CS 1971, 1981* or CS 1971, 1981*	Implementing Info Systems: User Perspective or Computational Problem Solving or Computational Problem Solving or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab 'Department will substitute for this requirement.	3
BUS 201 or MTH 180	Elementary Business Statistics (3) or Introductory Statistics (4)	3	STAT 1115	Statistics for the Social Sciences I	3
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
HST 115 or HST 128 or HST 101 or HST 102	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present or US History to 1865 or US History 1865 to Present	3	HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomice	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 Group 1 Core Requirements Total Hour	43 30 5 73		Group 2 Emphasis/Focus Area Requirements Group 1 Core Requirements  Total Hours*  *S&T advisor permission is required to transfer more than 60 credits toward the	42 28 70
Professional Regu	irements for Teacher Education Program: Please view all p	rogran	n requirements at https://teacheredu	S&T degree for Middle School Math Emphis Area.	

	Middle School	ol S	Scienc	e Emphasis	s Area	
	St. Louis Community College		Semester		Missouri S&T	
BIO 111 or BIO 140	Intro to Biology I (4) or Principles of Biology I (5)	4		BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology (3) and Lab (1) or Principles of Biology (3) and Lab (1)	4
BIO 225	Genetics	5		BIO SCI 2223	General Genetics	3
GEO 111	Physical Geology	5		GEOLOGY 1110	Physical and Environmental Geology	3
PSI 111 or PHY 111	Intro to Astronom or 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 105	General Chemistry I	5		CHEM 1310, 1319	General Chemistry I and Lab	5
MTH 140 or MTH 160	Intermediate Algebra or College Algebra	3		MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
BUS 201 or MTH 180	Elementary Business Statistics (3) or Introductory Statistics (4)	3		STAT 1115	Statistics for the Social Sciences I	3
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3		ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
HST 115 or HST 128 or HST 101 or HST 102	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present or US History to 1865 or US History 1865 to Present	3		HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310	Early Western Civilization or Modern Western Civilization or American History to 1877 or American History since 1877	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3		ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomice	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	41			Group 2 Emphasis/Focus Area Requirements	36
	Group 1 Core Requirements	30			Group 1 Core Requirements	28
	Total Hours	71			Total Hours*  *S&T advisor permission is required to transfer more than 61 credits toward the S&T degree for Middle School Schience Emphasis Area.	64
Professional Requ	uirements for Teacher Education Program: Please view all pro	gram	requirement	s at https://teachereduca	ation.mst.edu/middleschool/.	

	Middle School So	ocia	al Sciences Emp	hasis Area	
BIO 111 or BIO 140	St. Louis Community College Intro to Biology I (4) or Principles of Biology I (5)	4	Semester  BIO SCI 1113, 1219 or BIO SCI 1213, 1219	Missouri S&T	4
GEO 111 or PSI 111 or PHY 111 or CHM 105	Physical Geology (5) or Intro to Astronomy (5) or College Physics I (4) or General Chemistry I (5)	4	GEOLOGY 1110 or GEOLOGY 1120 or PHYSICS 1505 or PHYSICS 1145 or CHEM 1310	Physical and Environmental Geology (3) or Evolution of the Earth (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 140 or MTH 160	Intermediate Algebra or College Algebra	3	MATH 1103 or MATH 1140	Fundamentals of Algebra or College Algebra	3
IS 153 or IS 187 or IS 280 or ESC 101 or IS 167 or IS 267	C # Programming (4) or Java Programming I (4) or Python (3) or Scientific Computer Programming (3) or C++ Programming I (40 or C++ Programming II	3-4	IST 1551 or CS 1500 or CS 1500 or CS 1971, 1981* or CS 1971, 1981* or CS 1971, 1981*	Implementing Info Systems: User Perspective or Computational Problem Solving or Computational Problem Solving or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab or Intro to Programming (C++) and Lab  1 Department will substitute for this requirement.	3
GEG 101	Regional Geography	3	HISTORY 2110	World Regional Geography	3
HST 115 or HST 128	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present	3	HISTORY 1100 or HISTORY 1200	Early Western Civilization or Modern Western Civilization	3
HST 101 or HST 102	US History to 1865 or US History 1865 to Present	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
ART 100 or MUS 114 or THT 101	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomice	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  Total Hours	30 59		Group 1 Core Requirements  Total Hours*	28 59
				*S&T advisor permission is required to transfer more than 62 credits toward the S&T degree for Middle School Social Sciences Emphasis Area.	