

Three Rivers College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Three Rivers College

Missouri S&T

Communication Skills

Take all courses.

ENGL 111	College Writing	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 112 or SCOM 110	Advanced College Writing or Public Speaking	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
		Total Hours			Total Hours
		6			6

Mathematics and Science

Take all courses.

MATH 171	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MATH 271	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
MATH 272	Analytical Geometry and Calculus III	5	MATH 2222	Calculus III	4
PHYS 211	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
CHEM 121 or BIOL 101 or PHYS 150	General Chemistry I (5) or General Biology (4) or Environmental Geology MOTR GEOL 100 (4)	4	CHEM 1310, 1319* or BIO SCI 1113, 1219* or GEOLOGY 1110	General Chemistry I (4) and Lab* (1) or General Biology* (3) and Lab* (1) or Physical and Environmental Geology MOTR GEOL 100 (3) Satisfies the 3-hour science requirement. Credit hours apply to degree totals as indicated for each course. * CHEM 1319 and BIO SCI 1219 are not degree requirements, will transfer as general elective credit.	3
		Total Hours			Total Hours
		24			19

Social Sciences

Take all courses.

HIST 122 or HIST 111	World Civilization since the Renaissance or History to 1877	American	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3
GOVT 121	National and State Government		3	POL SCI 1200	American Government	3
PSYC 111	General Psychology		3	PSYCH 1101	General Psychology	3
			Total Hours	9		
					Total Hours	9

Humanities

Select one course.

ARTS 123 or ARTS 110	History and Appreciation of Art or Intro to Art	3	ART 1180	Art Appreciation	3
MUSC 123	History and Appreciation of Music	3	MUSIC 1150	Music Appreciation	3
THEA 120	History and Appreciation of Theatre	3	THEATRE 1190	Theatre via Video	3
ENGL 231 or ENGL 241 or ENGL 221	English Literature to 1798 or American Literature to 1870 or World Literature to 1600 or other non-prerequisite literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 r	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or other non-prerequisite literature	3
		Total Hours			Total Hours
		3			3

Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

MATH 280	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
----------	------------------------	---	-----------	-----------------------------------	---

Teacher Certification Requirements

Take all courses.

EDUC 230	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	2
EDUC 201	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDUC 210	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSYC 243	Human Development Across the Life Span	3	PSYCH 3310	Developmental Psychology	3
EDUC 260	Education of the Exceptional Learner	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours			Total Hours
		15			12

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

Maximum credit hours to be transferred to Missouri S&T degree requirements.

60

Missouri S&T residency requirements: The last 60 hours of any Missouri S&T degree must be completed at Missouri S&T.

Students must receive

special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

Students are not required to complete all

courses on this guide before transferring to Missouri S&T.