

Three Rivers College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2023

Three Rivers College

Missouri S&T

English and Communication Skills (Take all courses)

ENGL 111	College Writing	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 112	Advanced College Writing	3	ENGLISH 1160	Writing and Research	3
SCOM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			9		

Humanities

(Select 9 hours to include at least one literature.)

ENGL 231 or ENGL 241 or ENGL 221	English Literature to 1798 or American Literature to 1870 or World Literature to 1600 (or other literature elective)	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 (or other literature elective)	3
PSYC 111	General Psychology or other psychology	3	PSYCH 1101	General Psychology or other psychology	3
PHIL 200	Intro to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ARTS 123 or ARTS 110	History and Appreciation of Art or Intro to Art or other art	3	ART 118	Art Appreciation or other art	3
MUSC 123	History and Appreciation of Music or other music	3	MUS 1150	Music Understanding and Appreciation or other music	3
THEA 120	History and Appreciation of Theatre or other theater	3	THEATRE 1190	Theatre via Video or other theater	3
	Any foreign language	3		Any foreign language	3
	Any fine art, English, music, philosophy or speech.	3		Any fine art, English, music, philosophy or speech.	3
	Any history, political science, or psychology.	3		Any history, political science, or psychology.	3
Total Hours			9		

Social Sciences (Take all courses)

HIST 122 or HIST 111 or HIST 112 or GOVT 121	World Civilization since the Renaissance or American History to 1877 or American History since 1877 or National and State Government (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
ECON 212 or ECON 211	Principles of Microeconomics or Principles of Macroeconomics <small>*Students pursuing the Actuarial Science emphasis take BOTH ECON 212 and 211 (6 hours econ for a total of 9 hours social sciences).</small>	3	ECON 1100* or ECON 1200*	Principles of Microeconomics* or Principles of Macroeconomics* <small>*Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).</small>	3
Total Hours			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
MATH 280	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
PHYS 211	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 212	General Physics II	5	PHYSICS 2135	Engineering Physics II	4
CHEM 121 or BIOL 101	General Chemistry I or General Biology	5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab	4
Total Hours			33		

Additional Degree Requirements

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

Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3	Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	3
Maximum Free Electives	14	Maximum Free Electives	14

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.