

Moberly Area Community College — Missouri S&T

Applied Mathematics BS Transfer Guide Effective as of Fall 2025

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

Moberly Area Community College

Missouri S&T

English and Communication Skills

Take all courses.

Take all courses:					
LAL 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
LAL 102 or SPK 101	Composition II or Public Speaking I	3	ENGLISH 1160 or SPMS 1185	Writing and Research or Principles of Speech	3
		Total Hours	6		
				Total Hours	6

Mathematics, Statistics, and Computer Science

Take all courses.

Take all courses:					
MTH 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
MTH 203	Analytic Geometry and Calculus III	5	MATH 2222	Calculus III	4
MTH 250	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
ITC 125 or ITC 243 or ITC 244 or ITC 247	Object-Oriented Programming I or Object-Oriented Programming II: Java or Object-Oriented Programming II: C# or Python Programming	3	CS 1500	Computational Problem Solving	3
		Total Hours	21	Total Hours	18

Natural Sciences

Select PHYSICS 1135 and 1 additional course from the options below. A total of 7 hours will apply to this requirement.

PHY 201	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I required	4		
PHY 202	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4		
PHY 121	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5		
PHY 122	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3		
BIO 101 or BIO 155	Biology or General Biology for Majors I	4	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology and Lab or Principles of Biology and Lab	4		
PHY 163	Geology	4	GEOLOGY 1110	Physical and Environmental Geology or higher geology	3		
		Total Hours	13			Total Hours	7

Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include
6 hours Humanities and Fine Arts from at least two specific disciplines and
6 hours Behavioral and Social Sciences from at least two specific disciplines.

*At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.

Humanities and Fine Arts

Select 6 hours from at least two specific disciplines.

LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation or Theatre Appreciation *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or ART 1180 or MUSIC 1150 or MUSIC 1150 or THEATRE 1150	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Art Appreciation or Music Understanding and Appreciation or Music Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
---	---	---	---	--	---

Behavioral and Social Sciences

Select 6 hours to include ECON 1100 or 1200 and from at least two specific disciplines.

ECN 102 or ECN 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HST 101 or HST 102* or GEO 101 or PHI 150 or PHI 151 or PSC 105* or PSY 101 or Foreign Language	Western Civilization I or Western Civilization II* or World Geography I or Intro to Philosophy or Intro to Logic or Intro to American Government* or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or Foreign Language	Early Western Civilization or Modern Western Civilization or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government or General Psychology or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3

Humanities, Arts, and Social Sciences

Select 3 hours.

HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
---------------	--	---	---------------	--	---

Additional Degree Requirements

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

Technical Electives	Technical electives in biology, business, chemistry, computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical communication approved by advisor.	Technical Electives	Technical electives in biology, business, chemistry, computer science, economics, education, engineering, finance, geology, geophysics, information science and technology, marketing, mechanics, physics, or technical communication approved by advisor.
Electives	Free Electives	Electives	Free Electives

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.