Ozarks Technical Community College — Missouri S&T

Applied Mathematics BS

Transfer Guide Effective as of Fall 2025

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Electives

Missouri S&T

6

3

60

		Englis	h anc	l Commun	ication Skills			
			Т	ake all cours	es.			
ENG 101	Composition I		3		ENGLISH 1120	Exposition and Argumentation		3
ENG 102 or	Composition II or				ENGLISH 1160 or	Writing and Research or		
ENG 150 or	Technical Writing or		3		ENGLISH 3560 or	Technical Writing or		3
COM 105	Public Speaking				SPMS 1185	Principles of Speech		
		Total Hours	6				Total Hours	6
		Mathematics ,	Stat	istics, and	Computer Scienc	e		
			Т	ake all cours	es.			
MTH 140	Analytical Geometry/Calculus I		5		MATH 1214	Calculus I		4
MTH 141	Analytical Geometry/Calculus II		5		MATH 1215	Calculus II		4
MTH 240	Analytical Geometry/Calculus III		5		MATH 2222	Calculus III		4
MTH 241	Differential Equations		3		MATH 3304	Elementary Differential Equations		3
MTH 230	Linear Algebra		3		MATH 3108	Linear Algebra		3
CSC 160 or	Python Programming I (3) or		3		CS 1500	Computational Problem Solving		3
CSC 210	Data Structures (4)				00 1000	·		Ů
		Total Hours	24				Total Hours	21
			Na	tural Scier	nces			
	Select PHYSICS 1135 and 1 ad	ditional course	from t	he options b	elow. A total of 7 hours	s will apply to this requirement.		
PHY 220	Physics for Engineers and Scientists I		5		PHYSICS 1135	Engineering Physics I required		4
PHY 222	Physics for Engineers and Scientists II		5		PHYSICS 2135	Engineering Physics II		4
CHM 160, 161	General Chemistry I and Lab		5		CHEM 1310, 1319	General Chemistry I and Lab		5
CHM 170	General Chemistry II		4		CHEM 1320	General Chemistry II		3
BIO 100 or BIO 160	Life Science or General Biology I		4		BIO SCI 1113, 1219	General Biology and Labb		4
BIO 250	Genetics		4		BIO SCI 2223	Genetics		3
PHY 110	Intro to Geology		5		GEOLOGY 1110	Physical and Environmental Geology or higher geolo	gy	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 a	nd Fine Arts
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Survey of English Literature I or		ENIOLIOU 4044	
		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or
Survey of English Literature II or		ENGLISH 1212 or	British Literature II: 1800 to Present
Survey of American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or
Survey of American Literature II or		ENGLISH 1222 or	American Literature: 1865 to Present or
Survey of World Literature I or		ENGLISH 1231 or	World Literature I: Beginnings to the Renaissance or
US History I: to 1865* or	6	HISTORY 1300* or	American History to 1877 or
US History II: 1865-Present* or		HISTORY 1310* or	American History Since 1877 or
Art and Experience or		ART 1180 or	Art Appreciation or
Western Music Appreciation or		MUSIC 1150 or	Music Understanding and Appreciation or
Intro to Theater		THEATRE 1150	Theatre for Social Change
*Satisfies the State of Missouri government requirement.			*Satisfies the State of Missouri government requirement.
	Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater	Survey of American Literature I or Survey of American Literature II or Survey of World Literature II or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater "Satisfies the State of Missouri government requirement.	Survey of American Literature I or Survey of American Literature II or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater *Satisfies the State of Missouri government requirement. ENGLISH 1221 or ENGLISH 12

	6 hours to include I	ECON 1100 or 1200	and from at least two specific	disciplines.	
ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HST 105 or HST 106* or GRY 101 or PHL 101 or PLS 101 or PSY 110 or Foreign Language	Ancient and Medieval World History or Modern World History* or World Geography or Intro to Philosophy or American Government and Politics or Intro to Psychology or Elementary or Intermediate Foreign Language *Satis	3	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or POL SCI 1200* or PSYCH 1101or Foreign Language	Early Western Civilization or Modern Western Civilization or World Regional Geography or Self and World: Intro to Philosophy 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.

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

Additional Degree Requirements

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

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

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

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.

This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.