Ozarks Technical Community College — Missouri S&T Applied Mathematics BS Transfer Guide Effective as of Fall 2024

Ozarks Technical Community College				Missouri S&T		
		English ar	nd Com	munication Skills		
			Take all	courses.		
ENG 101 ENG 102 or	Composition I Composition II or		3	ENGLISH 1120 ENGLISH 1160 or	Exposition and Argumentation Writing and Research or	3
ENG 102 01 ENG 150	Technical Writing		3	ENGLISH 1160 01	Technical Writing	3
COM 105	Public Speaking		3	SPMS 1185	Principles of Speech	3
		Total Hours	9		Total Hours	9
Humanities Humanities						
Select 9 hours to include at least one literature.						
ENG 240 or	Survey of American Literature I or			ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 270 or ENG 260	Survey of American Literature I or Survey of World Literature I or other literature At least one literature course is required.		3	ENGLISH 1221 or ENGLISH 1231	American Literature: 1600 to 1865 or World Literature I or other literature At least one literature course is required.	3
PSY 110	Intro to Psychology or other philosophy		3	PSYCH 1101	General Psychology	3
PHL 101	Introduction to Philosophy		3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ART 100	Art and Experience		3	ART 118	Art Appreciation	3
MUS 105 THR 101	Western Music Appreciation Intro to Theater		3	MUS 1150 THEATRE 1190	Music Understanding and Appreciation Theatre via Video	3
Foreign Language	Any foreign language		3	Foreign Language	Any foreign language	3
Humanities	Any fine art, English, music, theatre, philosop	ohy or	3	Humanities	Any fine art, English, music, theatre, philosophy or	3
	speech. Any history, political sicence, or psychology.			Social Science	speech.	
Social Science	, ,,,	Total Hours	9	Social Science	Any history, political sicence, or psychology. Total Hours	3 9
				ciences	rotarrious	
Take all courses.						
HST 106 or	Modern World History or			HISTORY 1200 or	Modern Western Civilization or	
HST 120 or	US History I: to 1865 or			HISTORY 1300 or	American History to 1877 or	_
HST 130 or PLS 101	US History II: 1865-Present or American Government and Politics		3	HISTORY 1310 or POL SCI 1200	American History Since 1877 or American Government	3
PLS 101	At least one of these courses is required to satisfy state require	ment.		POL 301 1200	At least one of these courses is required to satisfy state requirement.	
E00.075	Dein sin land of Missan sandarian			ECON 1100* or	Principles of Microeconomics* or	
ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics		3	ECON 1200*	Principles of Macroeconomics* *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100	3
200 210	·				and 1200 (6 hours econ for a total of 9 hours social sciences).	
		Total Hours	6		Total Hours	6
	Mathen	natics, Sta		and Computer Sci	ence	
MTH 140	Analytical Geometry/Calculus I		Take all of	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 CSC 210	Python Programming I (3) or Data Structures (4)		3	CS 1500	Computational Problem Solving	3
000 210		Total Hours	24		Total Hours	21
			Scie	nce		
	Select PHYSICS 1135 and 2 additional of	courses from	n the opti	ons below. A total of 13	hours will apply to this requirement.	
PHY 220	Physics for Engineers and Scientists I		5	PHYSICS 1135	Engineering Physics I required	4
PHY 222 CHM 160, 161	Physics for Engineers and Scientists II General Chemistry I and Lab		5 5	PHYSICS 2135 CHEM 1310, 1319	Engineering Physics II General Chemistry I and Lab	4 5
CHM 170	General Chemistry II		4	CHEM 1310, 1319 CHEM 1320	General Chemistry II	3
BIO 100 or	Life Science or			BIO SCI 1113, 1219 or	General Biology and Lab or	
BIO 160	General Biology I		4	BIO SCI 1213, 1219	Principles of Biology and Lab	4
		Total Hours	13		Total Hours	13
				e Requirements		
	Select additional cours Technical electives in biology, chemistry, cor		p to the m	naximum transfer credit	Technical electives in biology, chemistry, computer	
Technical Electives	science, economics, engineering, geology, m or physics approved by advisor.	•	3	Technical Electives	science, economics, engineering, geology, mechanics, or physics approved by advisor.	3
Electives	Maximum Free Electives		14	Electives	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.						
This transfer guide is publish	ned by Missouri University of Science and Technology and is in effec	t as of Fall 2024. F	urther informa	ation or updates are available from N	Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-5	22-0938.
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