Ozarks Technical College — Missouri S&T

Applied Mathematics BS Transfer Guide Effective as of Fall 2023

	Ozarks Technical College			<u>Missouri S&T</u>	
	English and Co	mmuni	cation Skills (Take al	l courses)	
NG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
NG 102 or	Composition II or		ENGLISH 1160 or	Writing and Research or	
NG 150	Technical Writing	3	ENGLISH 3560	Technical Writing	3
OM 100 or	Human Communication or			, , , , , , , , , , , , , , , , , , ,	
OM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
	Total Hours	9		Total Hours	ç
		н	umanities		
	(Select 9 hou	rs to in	clude at least one lite	erature.)	
NG 240 or	Survey of English Literature I or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
NG 270 or	Survey of American Literature I or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
NG 260	Survey of World Literature I	3	ENGLISH 1231	World Literature I	3
	(or other literature elective)			(or other literature elective)	
SY 110	Intro to Psychology	3	PSYCH 1101	General Psychology or other psychology	З
HL 101	Introduction to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
				or other philosophy	
RT 100	Art and Experience	3	ART 118	Art Appreciation or other art	3
IUS 105	Western Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
HR 101	Intro to 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	3		Any fine art, English, music, philosophy or speech.	3
	speech.	5			0
	Any history, political sicence, or psychology.	3		Any history, political sicence, or psychology.	3
	Tetel Heure			Tatal Hausa	
	Total Hours	9	/ - 1 11	Total Hours	ç
	Social	Scienc	es (Take all courses))	
ST 106 or	World History II or		HISTORY 1200 or	Modern Western Civilization or	
ST 120 or	US History I: to 1865 or		HISTORY 1300 or	American History to 1877 or	
IST 130 or	US History II: 1865-Present or	3	HISTORY 1310 or	American History Since 1877 or	:
PLS 101	American Government and Politics		POL SCI 1200	American Government	
	(At least one of these courses is required to satisfy state requirement)			(At least one of these courses is required to satisfy state requirement)	
CO 275 or	Principles of Microeconomics or		ECON 1100* or	Principles of Microeconomics* or	
ECO 270	Principles of Macroeconomics		ECON 1200*	Principles of Macroeconomics*	
	*Students pursuing the Actuarial Science emphasis take BOTH	3		*Students pursuing the Actuarial Science emphasis take BOTH ECON	:
	ECO 275 and 270 (6 hours econ for a total of 9 hours social sciences).			1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	
	Total Hours	6		Total Hours	(
	Mathematic	s and	Science (Take all cou	irses)	
ITH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus I	4
1TH 141	Analytical Geometry/Calculus I	5	MATH 1215	Calculus I	_
1TH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus III	4
1TH 241	Differential Equations	3	MATH 3304		3
	· ·			Elementary Differential Equations	
/TH 230	Linear Algebra	3	MATH 3108	Linear Algebra	
PHY 220	Physics for Engineers and Scientists I	5 5	PHYSICS 1135	Engineering Physics I	4
HY 222 SC 210 or	Physics for Engineers and Scientists II	Э	PHYSICS 2135	Engineering Physics II	4
SC 160	Data Structures (4) or Python Programming I (3)	3	CS 1500	Computational Problem Solving	;
HM 160, 161 or	General Chemistry or		CHEM 1310, 1319 or	General Chemistry I and Lab or	
IO 160	General Biology	4-5	BIO SCI 1113, 1219	General Biology and Lab	4
	Total Hours	38	210 001 1110, 1210	Total Hours	3
			egree Requirements		
	Select additional courses to total	up to t	ne maximum transfer	r credit nours snown below.	
	Technical electives in biology, chemistry,			Technical electives in biology, chemistry, computer	
	computer science, economics, engineering,			science, economics, engineering, geology,	
	geology, mechanics, or physics approved by			mechanics, or physics approved by advisor.	
	advisor.				
	Maximum Free Electives	14		Maximum Free Electives	
	Maximum credit hours to be trai	nsterre	a to Missouri S&T de	egree requirements.	e
	Missouri S&T residency requirements: The la	ast 60 hou	rs of any Missouri S&T dearee	must be completed at Missouri S&T.	
Stu	Missouri S&T residency requirements: The la dents must receive special permission from Missouri S&T				
Stu		to apply r	more than the maximum credit	hours listed above toward the Missouri S&T degree.	