Ozarks Technical College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2023

	Ozarks Technical College			<u>Missouri S&amp;T</u>			
	Com	municatio	n Skills (Take all co	ourses)			
ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation		3	
ENG 102	Composition II	3	ENGLISH 1160	Writing and Research		3	
COM 105	Public Speaking	3	SPMS 1185	Principles of Speech		3	
	Total Ho			Total H	ours	9	
	Mather	natics and	d Science (Take all o	courses)			
				College Algebra*			
MTH 130	College Algebra	3	MATH 1140*	*Required for teacher certification; not a Mathematics BS requirer	ment.	3	
MTH 131	Trigonometry	3	MATH 1160*	Trigonometry* *Required for teacher certification; not a Mathematics BS required	nent.	2	
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	
PHY 220	Physics for Engineers and Scientists I	5	PHYSICS 1135	Engineering Physics I		4	
PHY 222	Physics for Engineers and Scientists II	5	PHYSICS 2135	Engineering Physics II		4	
1111 222	Total Ho		PH 13103 2133	Total H		- 25	
			nces (Take all cours		ours 2	23	
LIOT 400		ocial Sciel	<u> </u>	•			
HST 106 or	World History II or	0	HISTORY 1200 or	Modern Western Civilization or		•	
HST 120 or	US History I: to 1865 or	3	HISTORY 1300 or	American History to 1877 or		3	
HST 130 PLS 101	US History II: 1865-Present or American Government and Politics	3	HISTORY 1310 POL SCI 1200	American History Since 1877  American Government		3	
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology		3	
ECO 275 or	Principles of Microeconomics or	3		Principles of Microeconomics or		3	
ECO 270	Principles of Macroeconomics	3	1200	Principles of Macroeconomics		3	
200 210	Total Ho	urs 12	1200	Total H	loure '	12	
	i otal i lo		oo /Tako all aaywaa		Juis	12	
		Humanitie	es (Take all courses	•			
ART 100 or	Art and Experience or		ART 1180 or	Art Appreciation or			
MUS 105 or	Western Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or		3	
THR 101 or	Intro to Theater or		THEATRE 1190 or	Theatre via Video or			
PHL 101 ENG 240 or	Intro to Philosophy		PHILOS 1105	Intro to Philosophy			
ENG 240 or ENG 270 or	Survey of English Literature I or Survey of American Literature I or		ENGLISH 1211 or ENGLISH 1221 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or			
ENG 260	Survey of World Literature I  (or other literature elective)	3	ENGLISH 1231	World Literature I (or other literature elective)		3	
	Total Ho	urs 6		Total H	lours	6	
	4	dditional	Degree Requireme	nts			
				sfer credit hours shown below.			
MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations		3	
MHT 230	Linear Algebra	3	MATH 3108	Linear Algebra		3	
CHM 160, 161	General Chemistry or		CHEM 1310, 1319 or	General Chemistry I and Lab or			
or BIO 160	General Biology	4-5	BIO SCI 1113, 1219	General Biology and Lab		5	
CSC 160 or	Python Programming I (3) or			<b>.</b> ,			
CSC 210 or	Data Structures (4) or	3	CS 1500 or	Computational Problem Solving or		3	
CSC 140*	C++ Programming* (4)		CS 1971,1981	Intro to Programming Methodology and Lab			
	Additional Courses	for Teach	er Certification Opt	ion (Take all courses)			
EDU 220	Foundations of Education	3	EDUC 1040	Perspectives in Education		2	
EDU 250	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology		3	
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology		3	
EDU 260	Education Exceptional Learner	3	PSYCH 4310	Psychology of the Exceptional Child		3	
	Total Ho	urs 12		Total H	lours 1	11	
	equirements for Teacher Education Progra	m: Please vi	iew all program requirem	nents at			
https://teachere	education.mst.edu/secondaryeducation/.						
	Maximum credit hours to be	transferr	ed to Missouri S&T	degree requirements.	F	60	
St	Missouri S&T residency requirements udents must receive special permission from Misso	The last 60 houri S&T to appl	ours of any Missouri S&T deg ly more than the maximum cre	gree must be completed at Missouri S&T. edit hours listed above toward the Missouri S&T degree			
This transfer guid		•	courses on this guide before as of Fall 2023. Further information o	transferring to Missouri S&T.  or updates are available from Missouri S&T Transfer Admissions at tr	ransfer.mst.e	edu,	

transfer@mst.edu, or 800-522-0938.