

Ozarks Technical College — Missouri S&T

Applied Mathematics BS Transfer Guide

Effective as of Fall 2020

Ozarks Technical College

Missouri S&T

English and Communication Skills (Take all courses)

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 150	Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
ENG 340 or ENG 350 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I (or other literature elective)	3

Language and Communication Requirement Option 1 or Option 2 The requirement will be satisfied by either 6 credits of Speech and Media Studies or 2 semesters of the same foreign language.	Option 1: Foreign Language (2 semesters of same language satisfies the Language and Communication Requirement.) Option 2: Speech and Media Studies COM 105 Public Speaking and one additional course (6 credit hours of Speech and Media Studies satisfies the Language and Communication Requirement)	6
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Language and Communication Requirement Option 1 or Option 2 The requirement will be satisfied by either 6 credits of Speech and Media Studies or 2 semesters of the same foreign language.	Option 1: Foreign Language (2 semesters of same language satisfies the Language and Communication Requirement.) Option 2: Speech and Media Studies SPMS 1185 Principles of Speech and one additional course (6 credit hours of Speech and Media Studies satisfies the Language and Communication Requirement)	6
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Total Hours 15

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Social Sciences (Take all courses)

HST 106 or HST 120 or HST 130 or PLS 101	World History II or US History I: to 1865 or US History II: 1865-Present or American Government and Politics (At least one of these courses is required to satisfy state requirement)	3	HISTORY 1200 or HISTORY 1300 or HISTORY 1310 or POL SCI 1200	Modern Western Civilization or American History to 1877 or American History Since 1877 or American Government (At least one of these courses is required to satisfy state requirement)	3
ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics *Students pursuing the Actuarial Science emphasis take BOTH ECO 275 and 270 (6 hours econ for a total of 9 hours social sciences).	3	ECON 1100* or ECON 1200*	Principles of Microeconomics* or Principles of Macroeconomics* *Students pursuing the Actuarial Science emphasis take BOTH ECON 1100 and 1200 (6 hours econ for a total of 9 hours social sciences).	3

Total Hours 6

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Mathematics and Science (Take all courses)

MTH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 141	Analytical Geometry/Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
MTH 241* or MTH 230*	Differential Equations* or Linear Algebra* *Select 1 or 2 of these courses	3	MATH 3304* or MATH 3108*	Elementary Differential Equations* or Linear Algebra* *Select 1 or 2 of these courses	3-6
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
CSC 210	Data Structures	3	CS 1500	Computational Problem Solving	3
CHM 160, 161 or BIO 160	General Chemistry or General Biology	4-5	CHEM 1310, 1319 or BIO SCI 1113, 1219	General Chemistry I and Lab or General Biology and Lab Technical electives in biology, chemistry, computer science, economics, engineering, geology, mechanics, or physics approved by advisor.	5

See your advisor for course options

Total Hours 38-41

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

68

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.