

Ozarks Technical Community College — Missouri S&T

Physics BS

Transfer Guide Effective as of Fall 2024

Ozarks Technical Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition II	3	ENGLISH 1160	Writing and Research	3
Total Hours		6	Total Hours		6

Mathematics and Science

Take all courses.

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
CHM 160, 161	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 170	General Chemistry II	3	CHEM 1320	General Chemistry II	3
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
Total Hours		33	Total Hours		28

Social Sciences

Select 9 hours to include at least one course to satisfy the state requirement.

HST 106 or HST 120 or HST 130 or PLS 101	Modern World History or US History I: to 1865 or US History II: 1865-Present or American Government and Politics <small>At least one of these courses is required to satisfy state requirement.</small>	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 <small>At least one of these courses is required to satisfy state requirement.</small>	3
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 <small>or other economics</small>	3
PSY 110	Intro to Psychology or other psychology	3	PSYCH 1101	General Psychology or other psychology	3
Social Science	Any economics, history, political science, sociology, or psychology.	3	Social Science	Any economics, history, political science, sociology, or psychology.	3
Total Hours		9	Total Hours		9

Humanities

Select 6 credit hours to include at least one literature.

PHL 101	Introduction to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy <small>or other philosophy</small>	3
ART 100	Art and Experience or other fine art	3	ART 118	Art Appreciation or other fine art	3
MU 105	Western Music Appreciation or other music	3	MUS 1150	Music Understanding and Appreciation <small>or other music</small>	3
THR 101	Intro to Theater or other theater	3	THEATRE 1190	Theatre via Video or other theater	3
ENG 240 or ENG 270 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I or other literature	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	3
Humanities	Other fine art, literature, or philosophy.	3	Humanities	Other fine art, literature, or philosophy.	3
Total Hours		6	Total Hours		6

Additional Degree Requirements

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

MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MHT 230	Linear Algebra	3	MATH 3108	Linear Algebra <small>Recommended but not required; satisfies a math/stat elective requirement.</small>	3
CSC 160 or CSC 210	Python Programming I (3) or Data Structures (4)	3	CS 1500	Computational Problem Solving	3
Electives	Maximum Free Electives	6	Electives	Maximum Free Electives	6

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.