

Ozarks Technical College — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2023

Ozarks Technical 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			Total Hours
		6			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			Total Hours
		33			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	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 (or other economics elective)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics (or other economics)	3
PSY 110	Intro to Psychology (or other psychology)	3	PSYCH 1101	General Psychology (or other psychology)	3
	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective		Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	3
		Total Hours			Total Hours
		9			9

Humanities

Select 6 credit hours to include at least one literature.

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 (or other fine art)	3
MU 105	Western Music Appreciation	3	MUS 1150	Music Understanding and Appreciation (or other music)	3
THR 101	Intro to 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 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
	Other fine art, literature, or philosophy elective	3		Other fine art, literature, or philosophy elective	3
		Total Hours			Total Hours
		6			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 Recommended but not required, satisfies a math/stat elective requirement.	3
CSC 210 or CSC 160	Data Structures (4) or Python Programming I (3)	3	CS 1500	Computational Problem Solving	3
		Maximum Free electives			Maximum Free Electives
		6			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.