

# Ozarks Technical College — Missouri S&T

## Geology and Geophysics BS Transfer Guide

Effective as of Fall 2020

### Ozarks Technical College

### Missouri S&T

#### 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
COM 105	Public Speaking (if required for AA Degree)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as free elective)	3
Total Hours					9
					Total Hours
					9

#### 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
CHM 160, 161	General Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab	5
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
PHY 110	Intro to Geology	5	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CSC 140	C++ Programming	4	CS 1971, 1981	Intro to Programming Methodology and Lab	3
Total Hours					34
					Total Hours
					27

#### 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 Other economics, history, political science, sociology, psychology elective	3 3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics Other economics, history, political science, sociology, psychology elective	3 3
Total Hours					9
					Total Hours
					9

#### Humanities (Select 6 hours)

ART 100	Art and Experience	3	ART 1180	Art Appreciation	3
MUS 105	Western Music Appreciation	3	MUSIC 1150	Music Understanding and Appreciation	3
THR 101	Intro to Theater	3	THEATRE 1190	Theatre Appreciation	3
ENG 340	Survey of English Literature I	3	ENGLISH 1211	British Literature I: The Beginnings to 1800	3
ENG 350	Survey of American Literature I	3	ENGLISH 1221	American Literature: 1600 to 1865	3
ENG 260	Survey of World Literature I	3	ENGLISH 1231	World Literature I	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy	3
	<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective	3
Total Hours					6
					Total Hours
					6

#### Additional Degree Electives (Select up to 13 hours)

MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus with Analytic Geometry III (Transfers as required science elective)	4
MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations (Transfers as required science elective)	3
CHM 170	General Chemistry II	5	CHEM 1320	General Chemistry II (Transfers as required science elective)	3
BIO 100 or BIO 160	Life Science or General Biology I Other science, mathematics, or engineering course.	4	BIO SCI 1113	General Biology (Transfers as required science elective) Other science, mathematics, or engineering course.	3
Total Hours					13
					Total Hours
					13

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

**67**

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.