

# Ozarks Technical College — Missouri S&T

## Physics 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	Composition II	3	ENGLISH 1160	Writing and Research	3
COM 105	Public Speaking <small>(if required for AA Degree)</small>	3	SPMS 1185	Principles of Speech <small>(Not required for S&amp;T degree. Transfers as free elective)</small>	3
<b>Total Hours</b>			<b>9</b>		

#### 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
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
<b>Total Hours</b>			<b>33</b>		

#### Social Sciences (Select 9 hours)

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 <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
<i>See your advisor for course options</i>		6	Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
<b>Total Hours</b>			<b>9</b>		

#### Humanities (Select 6 credit hours to include one literature and one additional humanities)

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 <small>(or other literature elective)</small>	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 <small>(or other literature elective)</small>	3
PHL 101	Introduction to Philosophy <i>See your advisor for course options</i>	3	PHILOS 1105	Intro to Philosophy Other fine art, literature, or philosophy elective	3
<b>Total Hours</b>			<b>6</b>		

#### Additional Degree Requirements (Select up to 12 hours)

MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 230	Linear Algebra	3	MATH 3108	Linear Algebra	3
CSC 210 or CSC 140	Data Structures or C++ Programming	4	CS 1500 or CS 1971, 1981	Computational Problem Solving or Intro to Programming Method and Lab (C++)	3
BIO 100 or BIO 160	Life Science or General Biology I <small>(if required for AA degree)</small>	4	BIO SCI 1113	General Biology <small>(Transfers as free elective)</small>	3
<b>Total Hours</b>			<b>12</b>		

#### 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.