

Ozarks Technical Community College — Missouri S&T

Physics BS Transfer Guide

Effective as of Fall 2017

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
COM 105	Public Speaking (Required for AA Degree)	3	SPMS 1185	Principles of Speech (Not required for S&T degree. Transfers 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
MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
CHM 160,	General Chemistry	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)

HST 102 or HST 120 or HST 130 or PLS 101	Western Civilization 1350 to Present or First American to War or Reconstruction to the Present or American Government 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
<i>See your advisor for course options</i>			Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
Total Hours		9	Total Hours		9

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

<i>See your advisor for course options</i>			Literature Elective (required)	3	
PHL 101	Introduction to Philosophy	3	PHILOS 1115	Intro to Logic (preferred)	3
<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective		
Total Hours		6	Total Hours		6

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
CIT 145 or CIT 140	C++ Programming II or C++ Programming I	3	CS 1971, 1981 or CS 1570, 1580	Intro to Programming Method and Lab (C++) or Intro to Programming and Lab (C++)	3
BIO 100	Life Science (Required for AA degree)	4	BIO SCI 1113	General Biology (Transfers as required free elective)	3
Total Hours		12	Total Hours		12

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

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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.