

Ozarks Technical Community College — Missouri S&T

Physics BS

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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 or ENG 150	Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing <small>Applies to degree as Gen Ed communication requirement.</small>	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

Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include
6 hours Humanities and Fine Arts from at least two specific disciplines and
6 hours Behavioral and Social Sciences from at least two specific disciplines.

***At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.**

Humanities and Fine Arts

Select 6 hours from at least two specific disciplines and at least one literature course.

ENG 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or ART 100 or MUS 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: to 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. <small>*Satisfies the State of Missouri government requirement.</small>	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. <small>*Satisfies the State of Missouri government requirement.</small>	6
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Behavioral and Social Sciences

Select 6 hours from at least two specific disciplines.

HST 105 or HST 106* or GRY 101 or PHL 101 or PLS 101* or PSY 110 or ECO 275 or ECO 270 or Foreign Language	Ancient and Medieval World History or Modern World History* or World Geography or Intro to Philosophy or American Government and Politics* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	6	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHIL 1105 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or Self and World: Intro to Philosophy or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	6
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Humanities, Arts, and Social Sciences

Select 3 hours.

HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
Total HASS Hours					15
Total HASS Hours					15

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	COMP SCI 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.
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