

# Ozarks Technical Community College — Missouri S&T

## Geology and Geophysics 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 or COM 105	Composition II or Technical Writing or Public Speaking	3	ENGLISH 1160 or ENGLISH 3560 or SPMS 1185	Writing and Research or Technical Writing or Principles of Speech <small>Applies to degree as Gen Ed communication requirement.</small>	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 229	Statistics for Engineers and Scientists	3	STAT 3115*	Engineering Statistics* <small>*Will be substituted for the statistics requirement.</small>	3
CHM 160, 161	General Chemistry I and Lab	5	CHEM 1310*, 1319	General Chemistry I and Lab <small>*CHEM 1310 will be substituted for CHEM 1305.</small>	5
PHY 220	Physics for Engineers and Scientists I	5	PHYSICS 1135	Engineering Physics I	4
PHY 110	Intro to Geology	5	GEOLOGY 1110 (GEO ENG 1150)	Physical and Environmental Geology	3
CSC 160 or CSC 210 or CSC 140*	Python Programming I (3) or Data Structures (4) or C++ Programming I (4)	3	COMP SCI 1500 or COMP SCI 1971, 1981* or COMP SCI 1972, 1982*	Computational Problem Solving or Intro to Programming Methodology and Lab * or Intro to MATLAB Programming and Lab* <small>*Will be substituted for COMP SCI 1500.</small>	3
Total Hours			Total Hours		
31			26		

#### 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.

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 <b>US History I: to 1865*</b> or <b>US History II: 1865-Present*</b> 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 <b>HISTORY 1300*</b> or <b>HISTORY 1310*</b> 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 <b>American History to 1877*</b> or <b>American History Since 1877*</b> 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 <b>Modern World History*</b> or World Geography or Intro to Philosophy or <b>American Government and Politics*</b> 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 <b>HISTORY 1200*</b> or HISTORY 2110 or PHIL 1105 or <b>POL SCI 1200*</b> or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or <b>Modern Western Civilization*</b> or World Regional Geography or Self and World: Intro to Philosophy or <b>American Government*</b> 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			Total HASS Hours		
15			15		

#### Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus III <small>Applies to the degree as a required science/engineering elective.</small>	4
MTH 241	Differential Equations	3	MATH 3304	Elementary Differential Equations <small>Applies to the degree as a required science/engineering elective.</small>	3
PHY 222	Physics for Engineers and Scientists II	5	PHYSICS 2135	Engineering Physics II <small>*Applies to the degree as a Science/Engineering Elective.</small>	4
CHM 170	General Chemistry II	5	CHEM 1320	General Chemistry II <small>Applies to the degree as a required science/engineering elective.</small>	3
BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219*	General Biology and Lab* <small>BIO SCI 1113 applies to the degree as a required science elective. BIO SCI 1219 transfers as general elective credit.</small>	3
Science, Math, Engineering	Other science, mathematics, or engineering course.	3	Science, Math, Engineering	Other science, mathematics, or engineering course.	3

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

**61**

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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