

# Ozarks Technical Community College — Missouri S&T

## Chemistry BS

Transfer Guide Effective as of Fall 2025

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	3
Total Hours		6	Total Hours		6

#### Mathematics and Science

Take all courses.

		Take an elective			
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	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 170, 171	General Chemistry II	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	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
		Total Hours	35		Total Hours 30

#### 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	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	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 1150	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 Understanding and Appreciation or Theatre for Social Change	6
*Satisfies the State of Missouri government requirement.			*Satisfies the State of Missouri government requirement.		

#### 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	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	6
*Satisfies the State of Missouri government requirement.			*Satisfies the State of Missouri government requirement.		

#### Humanities, Arts, and Social Sciences

Select 3 hours.

		Select 6 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 Hours		15	Total Hours		15

#### Additional Degree Requirements

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

CHM 242	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 243	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
CSC 160 or CSC 210 or CSC 140*	Python Programming I (3) or Data Structures (4) or C++ Programming I (4)	3	CS 1500 or CS 1971, 1981*	Computational Problem Solving or Intro to Programming Methodology and Lab* (C++)	3
			*Will be substituted for CS 1500.		

#### 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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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025.  
Further information or updates are available from Missouri S&T Transfer Admissions at [transfer.mst.edu](mailto:transfer.mst.edu), [transfer@mst.edu](mailto:transfer@mst.edu), or 800-522-0938.