

# Ozarks Technical Community College — Missouri S&T

## Chemistry BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

### 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

#### Social Sciences

Take all courses.

HST 105	Ancient and Medieval World History	3	HISTORY 1100	Early Western Civilization	3		
HST 106	Modern World History	3	HISTORY 1200	Modern Western Civilization	3		
ECO 275 or	Principles of Microeconomics or	3	ECON 1100 or	Principles of Microeconomics or	3		
ECO 270 or	Principles of Macroeconomics or		ECON 1200 or	Principles of Macroeconomics or			
PLS 101	American Government and Politics		POL SCI 1200	American Government			
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3		
		Total Hours	12			Total Hours	12

#### Humanities

Take all courses.

Take an Interest					
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video	3
PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ENG 270 or ENG 271	Survey of American Literature I or Survey of American Literature II	3	ENGLISH 1221 or ENGLISH 1222	American Literature: 1600 to 1865 or American Literature 1865 to Present	3
		Total Hours	9		
				Total Hours	9

#### Mathematics and Sciences

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		
CHM 160, 161	General Chemistry II	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		
BIO 100 or BIO 160	Life Sience or General Biology I	4	BIO SCI 1113, 1219*	General Biology and Lab* <small>*BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, transfers as general elective credit.</small>	3		
		Total Hours	24			Total Hours	21

\*BIO SCI 1213 will be substituted for 1113. The lab is not a degree requirement, transfers as general elective credit.

#### Additional Degree Requirements

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

PHY 115 or PHY 110	Intro to Astronomy or Intro to Geology	4	PHYSICS 1505 or GEOLOGY 1110	Introductory Astronomy or Physical and Environmental Geology	3
PHY 120 or PHY 220	General Physics I (4) or Physics for Engineers and Scientists I (5)	4	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
BIO 275	Environmental Biology	4	BIO SCI 2263	Ecology	3
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

The lab is not a degree requirement, transfers as general elective credit.

#### Teacher Certification Requirements

Take all courses.

EDU 220	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3		
EDU 270	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1		
EDU 250	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3		
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3		
EDU 260	Education Exceptional Learner	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3		
		Total Hours	15			Total Hours	13

Professional Requirements for Teacher Education Program: Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

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

62

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.