

Ozarks Technical College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2023

Ozarks Technical 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
COM 105	Public Speaking (if required for AA degree)	3	SPMS 1185	Principles of Speech (Not required for the S&T degree. Applies to S&T degree 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 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		

Social Sciences (Select up to 6 credit hours to include one course to satisfy state requirement)

HST 106 or HST 120 or HST 130 or PLS 101	World History II or US History I: to 1865 or US History II: 1865-Present or American Government and 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
ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics (or other economics course)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics or other economics course	3
PSY 110	Intro to Psychology (or other psychology course) Other economics, history, political science, sociology, psychology elective.	3	PSYCH 1101	General Psychology or other psychology course Other economics, history, political science, sociology, psychology elective.	3
Total Hours 6			Total Hours 6		

Humanities (Select 6 hours)

ENG 240 or ENG 270 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ART 1180 or MUSIC 1150 or THEATRE 1190	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Art Appreciation (or other art) or Music Appreciation (or other music) or Theatre via Video (or other theatre)	3
ART 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater	3	PHILOS 1105	Intro to Philosophy (or other philosophy) Other fine art, literature, or philosophy elective	3
PHL 101	Intro to Philosophy Other fine art, literature, or philosophy elective	3			
Total Hours 6			Total Hours 6		

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 140 or CSC 160 or CSC 210	C++ Programming (4) or Python Programming I (3) or Data Structures (4)	3	CS 1971, 1981 or CS 1500	Intro to Programming Method and Lab (C++) or Computational Problem Solving	3

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