

# Ozarks Technical Community College — Missouri S&T

## Chemistry BS Transfer Guide

Effective as of Fall 2017

### 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	Composition II	3	ENGLISH 1160	Writing and Research	3
COM 105	Public Speaking (Required for AA Degree)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as Free Elective)	3
Total Hours			Total Hours		
9			9		

#### Mathematics and Science (Take all courses)

MTH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 141	Analytical Geometry/Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 240	Analytical Geometry/Calculus III	5	MATH 2222	Calculus with Analytic Geometry 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	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			Total Hours		
35			28		

#### Social Sciences (Select up to 9 credit hours to include one course to satisfy state requirement)

HST 102 or HST 120 or HST 130 or PLS 101	Western Civilization 1350 to Present or First American to War or Reconstruction to the Present or American Government 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	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
9			9		

*See your advisor for course options*

#### Humanities (Select 9 credit hours to include at least one literature course)

ENG 240 or ENG 220	British Literature Beginnings - 1790 or American Literature Beginnings - 1870	3	ENGLISH 1211 or ENGLISH 1221 (required)	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or other literature (at least one literature course is required)	3
ART 110 or MUS 101 or THE 101	Art and Experience or Western Music Appreciation or Introduction to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation or other fine art	3
Total Hours			Total Hours		
6			6		

*See your advisor for course options*

#### Additional Degree Requirements (Select up to 15 hours)

CHM 242	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	5
CSC 140 or CIT 145	C++ Programming I or C++ Programming II	3	CS 1971, 1981 or CS 1570, 1580	Intro to Programming Method and Lab (C++) or Intro to Programming and Lab (C++)	3 4
BIO 100	Life Science (Required for AA degree)	4	BIO SCI 1113	General Biology (Required for pre-med or bio-chem emphases. Otherwise, applies to S&T degree as free elective)	3
Total Hours			Total Hours		
15			15		

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

**71**

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.