

# Crowder College — Missouri S&T

## Chemistry BS Transfer Guide

Effective as of Fall 2017

### Crowder College

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 101	English Composition	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
SPCH 101	Speech (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)

MATH 150,160	Calculus I Part I and II	5	MATH 1214	Calculus for Engineers I	4
MATH 201	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MATH 202	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
CHEM 111	General Chemistry	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	General Chemistry II	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	3
PHYS 190	General Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 210	General Physics 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)

HIST 102 or HIST 106 or HIST 107 or PLSC 103	Western Civilization II or US History or US History II or National, State, and Local Government (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
ECON 202 or ECON 201	Principles of Economics II (Micro) or Principles of Economics I (Macro)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSYC 101	General Psychology	3	PSYCH 1101	General Psychology	3
<i>See your advisor for course options</i>				Other economics, history, political science, sociology, psychology elective.	3
Total Hours			Total Hours		
9			9		

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

ART 101 or MUSC 101	Art Appreciation or Music History and Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Music Appreciation other fine art	3
PHIL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy or other philosophy Other fine art, literature, or philosophy elective	3
<i>See your advisor for course options</i>					
Total Hours			Total Hours		
6			6		

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

COMP 111 or COMP 101	Intro to Computer Science or Intro to Computer Science	3	CS 1570, 1580 or CS 1971, 1981	Intro to Programming and Lab or Intro to Programming Methodology and Lab	3 3 4
BIOL 101	General Biology (Required for AA degree)	5	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.