

# State Fair Community College — Missouri S&T

## Chemistry BS Transfer Guide

Effective as of Fall 2023

### State Fair Community College

### Missouri S&T

#### Communication Skills (Take all courses)

ENGL 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or ENGL 112	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COM 101	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			Total Hours		
9			9		

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

MATH 130	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
MATH 131	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
MATH 132	Calculus and Analytic Geometry III	5	MATH 2222	Calculus III	4
CHEM 123	General Chemistry I with Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 124	General Chemistry II with Lab	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	5
PHYS 118	General Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 119	General Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
35			30		

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

HIST 109 or HIST 101 or HIST 102 or POLS 101	World Civilization After 1500 or US History Before 1877 or US History Since 1877 or American/National 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 102 or ECON 101	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 101	General Psychology	3	PSYCH 1101	General Psychology or other psychology course	3
	Other economics, history, political science, sociology, psychology elective.	3		Other economics, history, political science, sociology, psychology elective.	3
Total Hours			Total Hours		
6			6		

#### Humanities (Select 6 hours)

LIT 112 or LIT 107 or LIT 109	World Literature or American Literature or British Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	World Literature I or American Literature Elective or British Literature Elective (or other literature elective)	3
ART 101 or MUS 101 or THEA 107	Art Appreciation or Music Appreciation or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation (or other art) or Music Appreciation (or other music) or Theatre via Video (or other theatre)	3
PHIL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
	Other fine art, literature, or philosophy elective	3		Other fine art, literature, or philosophy elective	3
Total Hours			Total Hours		
6			6		

#### Additional Degree Requirements

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

CHEM 221	Organic Chemistry I with Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 222	Organic Chemistry II with Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
CIS 120 or CIS 155	Programming in Python or Programming in C#	3	CS 1500	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.