

# State Fair Community College — Missouri S&T

## Chemistry BS

Transfer Guide Effective as of Fall 2024

### 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	English Composition II	3	ENGLISH 1160	Writing and Research	3
Total Hours			6		

#### 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 211	Engineering Physics I with Lab	5	PHYSICS 1135	Engineering Physics I	4
PHYS 212	Engineering Physics II with Lab	5	PHYSICS 2135	Engineering Physics II	4
Total Hours			35		

#### Social Sciences

Select up to 9 credit hours to include one course to satisfy Missouri 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 <small>At least one of these courses is required to satisfy state requirement.</small>	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 <small>At least one of these courses is required to satisfy Missouri state requirement.</small>	3
ECON 102 or ECON 101	Principles of Microeconomics or Principles of Macroeconomics <small>or other economics course</small>	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics <small>or other economics</small>	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology or other psychology	3
Social Science	Other economics, history, political science, sociology, or psychology.	3	Social Science	Other economics, history, political science, sociology, or psychology.	3
Total Hours			9		

#### Humanities

Select 6 hours.

LIT 109 or LIT 107 or LIT 112	British Literature or American Literature or World Literature or other literature	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or other literature	3
ART 101 or MUS 101 or THEA 107	Art Appreciation or Music Appreciation or Intro to Theatre or other art, music, or theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video or other art, music, or theatre	3
PHIL 101	Introduction to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
Humanities	Other fine art, literature, or philosophy	3	Humanities	Other fine art, literature, or philosophy	3
Total Hours			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.