

State Fair Community College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2017

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
SPTH 101	Public Speaking (Required for AA degree.)	3	SPMS 1185	Principles of Speech (Applies to S&T degree as Free Elective)	3
Total Hours		9	Total Hours		9

Mathematics and Science (Take all courses)

MATH 130	Calculus and Analytical Geometry I	5	MATH 1214	Calculus for Engineers I	4
MATH 131	Calculus and Analytical Geometry II	5	MATH 1215	Calculus for Engineers II	4
MATH 132	Calculus and Analytical Geometry III	5	MATH 2222	Calculus with Analytic Geometry 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	3
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		35	Total Hours		28

Social Sciences (Select up to 9 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 <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 state requirement)</small>	3
ECON 102 or ECON 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSY 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		9	Total Hours		9

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

LIT 104	Masterpieces I	3	ENGLISH 1211 (required)	British Literature I: The Beginnings to 1800 other literature (at least one literature course is required)	3
ART 101 or MUS 101	Art Appreciation or Music Appreciation	3	ART 1180 or MUSIC 1150	Art Appreciation or Appreciation Music	3
PHIL 101	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy or other philosophy	3
<i>See your advisor for course options</i>				Other fine art, literature, or philosophy elective	
Total Hours		6	Total Hours		6

Additional Degree Requirements (Select up to 15 hours)

CHEM 221	Organic Chemistry I with Lab	5	CHEM 2210, 2219	Organic Chemistry I and Lab	5
CHEM 222	Organic Chemistry II with Lab	5	CHEM 2220, 2229	Organic Chemistry II and Lab	5
CIS 155	Programming in C+		CS 1570	Intro to Programming (C++)	4
BIO 125	Biology I with Lab (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		15	Total Hours		15

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

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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.