

Metropolitan Community College — Missouri S&T

Chemistry BS

Transfer Guide Effective as of Fall 2024

Metropolitan Community College

Missouri S&T

Communication Skills

Take all courses.

ENGL 101	Composition and Reading I	3	ENGLISH 1120	Exposition and Argumentation	3
ENGL 102 or ENGL 215	Composition and Reading II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Total Hours			Total Hours		
6			9		

Mathematics and Science

Take all courses.

MATH 180	Analytic Geometry & Calculus I	5	MATH 1214	Calculus I	4
MATH 190	Analytic Geometry & Calculus II	5	MATH 1215	Calculus II	4
MATH 210	Analytic Geometry & Calculus III	4	MATH 2222	Calculus III	4
CHEM 111	General College Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHEM 112	General College Chemistry II	5	CHEM 1320,1510	General Chemistry II and Qualitative Analysis	5
PHYS 220	Engineering Physics I	5	PHYSICS 1135	Engineering Physics I	4
PHYS 221	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
ENGR 215	Engineering Statistics and Computation	3	STAT 3115	Engineering Statistics	3
Total Hours			Total Hours		
37			33		

Social Sciences

Select up to 9 credit hours to include one course to satisfy Missouri state requirement.

HIST 134 or HIST 120 or HIST 121 or POLS 136	Modern Western Civilization or United States History to 1865 or United States History since 1865 or Intro to U.S. National Politics <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 211 or ECON 210	Microeconomics or Macroeconomics <small>or other economics</small>	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics <small>or other economics</small>	3
PSYC 140	General Psychology <small>or other psychology</small>	3	PSYCH 1101	General Psychology <small>or other psychology</small>	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			Total Hours		
9			9		

Humanities

Select 6 hours.

ENGL 220 or ENGL 222 or ENGL 254 or ENGL 268 or ENGL 2608	British Literature to 1750 or American Literature I or World Literature I or Women's Literature or African-American Literature <small>or other literature</small>	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature <small>or other literature</small>	3
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation <small>or other art, music, or theatre</small>	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video <small>or other art, music, or theatre</small>	3
PHIL 100	Intro to Philosophy <small>or other philosophy</small>	3	PHILOS 1105	Self and World: Intro to Philosophy <small>or other philosophy</small>	3
Humanities	Other fine art, literature, or philosophy	3	Humanities	Other fine art, literature, or philosophy	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	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHEM 222	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
ENGR 204 or CSIS 123	Programming for Engineers or Programming Fundamentals	3	CS 1500 or CS 1971, 1981*	Computational Problem Solving or Intro to Programming Methodology and Lab* <small>*Will be substituted for CS 1500..</small>	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.