

Metropolitan Community College — Missouri S&T

Chemistry BS Transfer Guide

Effective as of Fall 2023

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
COMM 100	Fundamentals of Speech (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		9	Total Hours		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	34		
				Total Hours	33

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

HIST 134 or HIST 120 or HIST 121 or POLS 136	Western Civilization II or United States History to 1865 or United States History since 1865 or Introduction to American Politics (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 211 or ECON 210	Microeconomics or Macroeconomics (or other economics course)	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics (or other economics course)	3
PSYC 140	General Psychology	3	PSYCH 1101	General Psychology or other psychology course	3
	Other economics, history, political science, sociology, psychology elective.			Other economics, history, political science, sociology, psychology elective.	3
Total Hours		9	Total Hours		9

Humanities (Select 6 hours)

ENGL 220 or ENGL 222 or ENGL 254 or ENGL 260 or ENGL 262/268	British Literature to 1750 or American Literature I or World Literature I or African-American Literature or Women's Lives and Autobiography/Women's Literature (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2245 or ENGLISH 2242 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or African American Literature or Literature by Women (or other literature elective)	3
ART 108 or MUSI 108 or SPDR 106	Survey of Art or Music Appreciation or Theater Appreciation	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 100	Introduction to Philosophy	3	PHILOS 1105	Intro to Philosophy (or other philosophy)	3
	Other fine art, literature, or philosophy elective			Other fine art, literature, or philosophy elective	3
Total Hours		9	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	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
CSIS 123 or	Programming Fundamentals C++ or	3	CS 1971, 1981 or	Intro to Programming Method and Lab (C++) or	3
CSIS 223 or	Object-Oriented Programming w/ C++ or		CS 1972, 1982 or	Intro to MATLAB Programming and Lab or	
ENGR 204	Programming for Engineers		CS 1500	Computational Problem Solving	
		Total Hours	13		
				Total Hours	11

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.