

# Jefferson College — Missouri S&T

## Chemistry BA

Transfer Guide Effective as of Fall 2025

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

### Jefferson College

### Missouri S&T

#### Communication Skills

Take all courses.

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research Applies to degree as Gen Ed Communication requirement.	3
Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages.	12	Foreign Language	Foreign Language 3 semesters of same language OR 2 semesters of each of two different languages.	12
		Total Hours			Total Hours
		18			18

#### Mathematics and Sciences

Take all courses.

MTH 180	Calculus I	5	MATH 1214	Calculus I	4
MTH 185	Calculus II	5	MATH 1215	Calculus II	4
CHM 111	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II	5	CHEM 1320, 1510	General Chemistry II and Qualitative Analysis	5
BIO 101 or BIO 103	General Biology (5) or Biology for Majors I (4)	4	BIO SCI 1113, 1219* or BIO SCI 1213, 1219*	General Biology and Lab* or Principles of Biology* and Lab* or other biological science Satisfies a biological sciences elective requirement. The lab is not a degree requirement, will transfer as general elective credit.	3
		Total Hours			Total Hours
		24			21

#### Humanities

Select up to 12 hours to include at least one course in each of the three areas of literature (English and American), philosophy, and non-performance fine arts (art, music, and theater).

ART 101 or MUS 181 or THT 100	Art Appreciation or Appreciation of Music or Intro to Theatre	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Understanding and Appreciation or Theatre via Video	3
ENG 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650	3	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or British Literature II: 1800 to Present American Literature: 1600 to 1865 or American Literature: 1865 to Present or World Literature I: Beginnings to the Renaissance	3
PHL 102 or PHL 101	Intro to Philosophy or Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
Humanities Elective	Other fine art, literature, or philosophy	3	Humanities Elective	Other fine art, literature, or philosophy	3
		Total Hours			Total Hours
		12			12

#### Social Sciences

Select up to 15 hours in two areas to include History 1100 and 1200.

HST 201	Ancient and Medieval Civilization required	3	HISTORY 1100	Early Western Civilization required	3
HST 202	Renaissance to Early Mod Europe MOTR WCIV 102	3	HISTORY 1200	Modern Western Civilization required	3
ECO 102 or ECO 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
HST 103	American History I	3	HISTORY 1300	American History to 1877	3
HST 104	American History II	3	HISTORY 1310	American History since 1877	3
Social Science	Other history, economics, political science, psychology, or sociology	3	Social Science	Other history, economics, political science, psychology, or sociology	3
		Total Hours			Total Hours
		15			15

#### Additional Degree Requirements

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

CHM 200	Organic Chemistry I	5	CHEM 2210, 2219	Organic Chemistry I and Lab	4
CHM 201	Organic Chemistry II	5	CHEM 2220, 2229	Organic Chemistry II and Lab	4
MTH 201	Calculus III	5	MATH 2222	Calculus III	4
PHY 111 or PHY 223	Elementary College Physics I MOTR PHYS 150L (5) or General Physics I (4)	4	PHYSICS 1145 or PHYSICS 1135	College Physics I MOTR PHYS 105L or Engineering Physics I	4
PHY 112* or PHY 224	Elementary College Physics II* (4) or General Physics II	4	PHYSICS 2145 or PHYSICS 2135	College Physics II or Engineering Physics II	4

#### 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.

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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025.  
Further information or updates are available from Missouri S&T Transfer Admissions at [transfer@mst.edu](mailto:transfer@mst.edu), [transfer@mst.edu](mailto:transfer@mst.edu), or 800-522-0938.