

St Charles Community College — Missouri S&T

Biochemistry BS

Transfer Guide Effective as of Fall 2026

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

St Charles Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 115	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 1185	Writing and Research or Principles of Speech Applies to degree as Gen Ed communication requirement.	3
		Total Hours	6		
				Total Hours	6

Mathematics and Science

Take all courses.

MAT 180	Calculus and Analytic Geometry I	5	MATH 1214	Calculus I	4
MAT 230	Calculus and Analytic Geometry II	5	MATH 1215	Calculus II	4
BIO 150	General Biology: Cells to Organisms	5	BIO SCI 1213, 1219	Principles of Biology and Lab	4
CHM 115	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 116	General Chemistry II	5	CHEM 1320, 1510*	General Chemistry II (3) and Qualitative Analysis* (2) *CHEM 1510 is not a degree requirement, transfers as general elective credit.	3
PHY 150,153 or PHY 250	General Physics and Lab or Engineering Physics I	5	PHYSICS 1145 or PHYSICS 1135*	College Physics I or Engineering Physics I* *Will be substituted for PHYSICS 1145.	4
PHY 151,154 or PHY 251	General Physics II and Lab or Engineering Physics II	5	PHYSICS 2145 or PHYSICS 2135*	College Physics II or Engineering Physics II* *Will be substituted for PHYSICS 2145.	4
		Total Hours	35		
				Total Hours	28

Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 15 hours to include
6 hours Humanities and Fine Arts from at least two specific disciplines and
6 hours Behavioral and Social Sciences from at least two specific disciplines.

*At least one course must be selected from HISTORY 1200, 1300, 1310, or POL SCI 1200 to satisfy the State of Missouri government requirement.

Humanities and Fine Arts

Select 6 hours from at least two specific disciplines.

LIT 250 or LIT 260 or LIT 210 or LIT 220 or LIT 272 or HIS 101* or HIS 102* or ART 1001 or MUS 111 or THE 122 or Literature	English Literature Before 1800 or English Literature After 1800 or American Literature From Beginnings-1865 or American Literature From 1865-Present or World Literature-Ancient World thru Renaissance or US History to 1877* or US History Since 1877* or Art Appreciation or Music Appreciation or Intro to the Theatre or Any literature with prerequisite of no more than English Composition I *Satisfies the State of Missouri government requirement.	6	ENGLISH 1211 or ENGLISH 1212 or ENGLISH 1221 or ENGLISH 1222 or ENGLISH 1231 or HISTORY 1300* or HISTORY 1310* or ART 1180 or MUSIC 1150 or THEATRE 1190 or Literature	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 or American History to 1877* or American History Since 1877* or Art Appreciation or Music Appreciation or Theatre via Video or Any literature with prerequisite of no more than ENGLISH 1120. *Satisfies the State of Missouri government requirement.	6
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Behavioral and Social Sciences

Select 6 hours from at least two specific disciplines.

HIS 145 or HIS 146* or GEO 110 or PHL 101 or PHL 102 or POL 101* or PSY 101 or ECO 120 or ECO 110 or Foreign Language	Western Civilizations Ancient and Medieval or Western Civilizations Modern European* or Geography for Educators or Intro to Philosophy or Intro to Logic or American Government* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 or PHILOS 1105 or PHILOS 1115 or POL SCI 1200* or PSYCH 1101 or ECON 1100 or ECON 1200 or Foreign Language	Early Western Civilization or Modern Western Civilization* or World Regional Geography or Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction or American Government* or General Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	6
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Humanities, Arts, and Social Sciences

Select 3 hours.

HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3	HASS Elective	Humanities, Arts, Social Sciences Elective: Any history, art, music, theater, English and technical communication, philosophy, political science, psychology, economics, etymology, or foreign language.	3
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Total HASS Hours 15

Total HASS Hours 15

Additional Degree Requirements

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

BIO 246	Microbiology	4	BIO SCI 3313, 3319*	Microbiology (3) and Lab* (1) *BIO SCI 3319 is not a degree requirement; transfers as general elective credit.	3
CHM 240 and CHM 241, 243	Organic Chemistry I and Organic Chemistry II and Lab The combination of SCC CHM 240, 241, and 243 is equivalent to the combination of S&T CHEM 2210, 2219, 2220, and 2229. All courses must be taken to receive full transfer credit.	8	CHEM 2210, 2219 and CHEM 2220, 2229	Organic Chemistry I and Lab and Organic Chemistry II and Lab The combination of SCC CHM 240, 241, and 243 is equivalent to the combination of S&T CHEM 2210, 2219, 2220, and 2229. All courses must be taken to receive full transfer credit.	4
CHM 222	Quantitative Analysis	4	CHEM 2510	Analytical Chemistry I	4
CPT 135	Programming Fundamentals with Python	4	COMP SCI 1973, 1983	Intro to Python Programming and Lab	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.
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