

Jefferson College — Missouri S&T

Computer Science BS

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	3
		Total Hours			Total Hours
		6			6

Computer Science, Mathematics, and Science

Take all courses.

CIS 155	Intro to Computer Programming	3	CS 1500	Computational Problem Solving	3
MTH 180	Calculus I	5	MATH 1214	Calculus I	4
MTH 185	Calculus II	5	MATH 1215	Calculus II	4
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra	3
		Total Hours			Total Hours
		16			14

Engineering/Science Electives

Select up to 6 hours in engineering/science electives not already used to satisfy another degree requirement. See Approved Science and Engineering Electives at <https://cs.mst.edu/undergraduate-degree/>

MTH 201 or MTH 205	Calculus III or Differential Equations	3	MATH 2222 or MATH 3304	Calculus III (4) or Elementary Differential Equations (3) Or other math 2000-level or higher or Any statistics 4000-level or higher Credit hours apply to degree totals as indicated for each course.	3
EGR 228 or EGR 250 or EGR 261	Engineering Mechanics-Statics or Engineering Mechanics-Dynamics or Circuit Analysis I	3	CIV ENG 2200 or MECH ENG 2350 or ELEC ENG 2800	Statics or Engineering Mechanics-Dynamics (2) or Circuit Analysis Or other course with the equivalent of a Missouri S&T engineering designation.	3
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 Only one of these courses may be applied to the engineering/science elective requirement.	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 Only one of these courses may be applied to the engineering/science elective requirement.	4
Physics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145, except as noted above.	3	Physics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145, except as noted above.	3
Science	Any biology, chemistry, geology, or environmental science.	3	Science	Any biology, chemistry, geology, or environmental science.	3
		Total Hours			Total Hours
		6			6

*A maximum of 6 hours applies to engineering/science elective requirements. Any additional credit hours apply to degree totals as general elective credit.

Natural Sciences General Education Requirements

Select 7 hours to include at least two specific disciplines and to include at least 1 hour of lab.

CHM 111 or BIO 101 or BIO 103 or PHY 106	General Chemistry I (5) or General Biology (5) or Biology for Majors I (4) or Intro to Astronomy (4)	4	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 1213, 1219 or PHYSICS 1505, 1509	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or Principles of Biology and Lab (4) or Introductory Astronomy (3) and Lab (1) Satisfies the gen ed natural science lecture/lab requirement. Lecture/lab pair must total a minimum of 4 hours.	4
Natural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher)	3	Natural Science	Any Biology (1113 or higher), Chemistry (1301 or higher), Geology (1110 or higher) or Physics (1111 or higher)	3
		7			7

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.

ENG 225 or ENG 226 or ENG 228 or ENG 229 or ENG 215 or HST 103* or HST 104* or ART 101 or MUS 121 or THT 100	English Literature before 1800 or English Literature after 1800 or American Literature before 1865 or American Literature after 1865 or World Literature before 1650 or US History I to Reconstruction* or US History II from Reconstruction* or Art Appreciation or Appreciation of Music or Theatre Appreciation *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 1150	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 Understanding and Appreciation or Theatre for Social Change *Satisfies the State of Missouri government requirement.	6
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Behavioral and Social Sciences

Select 3 hours.

HST 201 or HST 202* or GEO 103 or PSC 102* or PSY 101 or ECO 102 or ECO 101 or Foreign Language	Ancient and Medieval Civilization or Renaissance to Early Modern Europe* MOTR WCIV 102 or World Regional Geography or US and Missouri Government and Constitution* or General Psychology or Microeconomics or Macroeconomics or Elementary or Intermediate Foreign Language *Satisfies the State of Missouri government requirement.	3	HISTORY 1100 or HISTORY 1200* or HISTORY 2110 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 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.	3
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Humanities, Arts, and Social Sciences

COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours			Total Hours
		12			12

Additional Degree Requirements

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

Electives	Maximum Free Electives	7	Electives	Maximum Free Electives	7
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Maximum credit hours to be transferred to Missouri S&T degree requirements.

68

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.