

Ozarks Technical Community College — Missouri S&T

Computer Science 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.

Ozarks Technical Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 150	Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing <small>Applies to degree as Gen Ed communication requirement.</small>	3
Total Hours		6			Total Hours 6

Computer Science, Mathematics, and Science

Take all courses.

CSC 160 or CSC 210 or CSC 140*	Python Programming I (3) or Data Structures (4) or C++ Programming I (4)	3	COMP SCI 1500* or COMP SCI 1971,1981*	Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab* <small>*COMP SCI 1500 is preferred; COMP SCI 1971,1981 will be accepted in lieu of COMP SCI 1500 if necessary.</small>	3
MTH 140	Analytical Geometry/Calculus I	5	MATH 1214	Calculus I	4
MTH 141	Analytical Geometry/Calculus II	5	MATH 1215	Calculus II	4
MTH 230	Linear Algebra	3	MATH 3108	Linear Algebra	3
MTH 229	Statistics for Engineers and Scientists	3	STAT 3115*	Engineering Statistics* <small>be substituted for the statistics requirement.</small>	*Will 3
Total Hours		19			Total Hours 17

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 240 or MTH 241	Analytic Geometry and Calculus III or Differential Equations	3	MATH 2222 or MATH 3304	Calculus III (4) or Elementary Differential Equations (3) <small>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.</small>	3
EGR 201 or EGR 205	Engineering Statics or Engineering Dynamics	3	CIV ENG 2200 or MECH ENG 2350	Statics or Engineering Mechanics-Dynamics (2) <small>Or other course with the equivalent of a Missouri S&T engineering designation.</small>	3
PHS 120 or PHY 220	General Physics I (4) or Physics for Engineers and Scientists I (5)	4	PHYSICS 1135 or PHYSICS 1145	Engineering Physics I or College Physics I <small>Only one of these courses may be applied to the engineering/science elective requirement.</small>	4
PHS 130 or PHY 222	General Physics 2 (4) or Physics for Engineers and Scientists II (5)	4	PHYSICS 2135 or PHYSICS 2145	Engineering Physics II or College Physics II <small>Only one of these courses may be applied to the engineering/science elective requirement.</small>	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		6			Total Hours 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 160, 161 or BIO 100 or BIO 160 or BIO 170 or PHY 115	General Chemistry I (5) or Life Science (4) or General Biology I (4) or General Biology II (4) or Intro to Astronomy (4)	4	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 1223, 1229 or PHYSICS 1505, 1509	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or Biodiversity (3) and Lab (1) or Introductory Astronomy (3) and Lab (1) <small>Satisfies the gen ed natural science lecture/lab requirement. Lecture/lab pair must total a minimum of 4 hours.</small>	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
Total Hours		7			Total Hours 7

Humanities, Arts, and Social Sciences General Education Requirements

From the options listed in each group below, select 12 hours to include
6 hours Humanities and Fine Arts from at least two specific disciplines and
3 hours Behavioral and Social Sciences.

***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 240 or ENG 241 or ENG 270 or ENG 271 or ENG 260 or HST 120* or HST 130* or ART 100 or MUS 105 or THR 101 or Literature	Survey of English Literature I or Survey of English Literature II or Survey of American Literature I or Survey of American Literature II or Survey of World Literature I or US History I: 1865* or US History II: 1865-Present* or Art and Experience or Western Music Appreciation or Intro to Theater or Any literature with prerequisite of no more than English Composition I. <small>*Satisfies the State of Missouri government requirement.</small>	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. <small>*Satisfies the State of Missouri government requirement.</small>	6
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Behavioral and Social Sciences

Select 3 hours.

HST 105 or HST 106* or GRY 101 or PLS 101* or PSY 110 or ECO 275 or ECO 270 or Foreign Language	Ancient and Medieval World History or Modern World History* or World Geography or American Government and Politics* or Intro to Psychology or Principles of Microeconomics or Principles of Macroeconomics or Elementary or Intermediate Foreign Language <small>*Satisfies the State of Missouri government requirement.</small>	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 <small>*Satisfies the State of Missouri government requirement.</small>	3
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Humanities, Arts, and Social Sciences

SPMS 1185 is required.

COM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total HASS Hours		15			Total HASS Hours 12

Additional Degree Requirements

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

EGR 100	Study and Careers in Engineering	1	FR ENG 1100	Study and Careers in Engineering and Computing	1
Electives	Maximum Free Electives	7	Electives	Maximum Free Electives	7

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.