

Ozarks Technical Community College — Missouri S&T

Computer Science BS

Transfer Guide Effective as of Fall 2024

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	Composition II	3	ENGLISH 1160 or ENGLISH 1600	Writing and Research or Intro to Technical Communication	3
COM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

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	CS 1500* or CS 1971, 1981*	Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab*	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
PHY 220	Physics for Engineers and Scientists I	5	PHYSICS 1135	Engineering Physics I	4
PHY 222	Physics for Engineers and Scientists II	5	PHYSICS 2135	Engineering Physics II	4
CHM 160, 161 or BIO 100 or BIO 160 or BIO 170 or PHY 110	General Chemistry I (5) or Life Science (4) or General Biology I (4) or General Biology II (4) or Intro to Geology (4)	4	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 1223, 1229 or GEOLOGY 1120, 1129	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or Biodiversity (3) and Lab (1) or Evolution of the Earth (3) and Lab (1) <small>Satisfies the 5-hour science lecture/lab requirement. Credit hours apply to degree totals as indicated for each course.</small>	4
Total Hours			Total Hours		
30			26		

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) Or other math 2000-level or higher or <small>Any statistics 4000-level or higher Satisfies the 3-hour science lecture/lab requirement. 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
Science	Any biology, chemistry, geology, or environmental science.	3	Science	Any biology, chemistry, geology, or environmental science.	3
Physics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3	Physics	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3
<small>*A maximum of 6 hours applies to engineering/science elective requirements. Any additional credit hours apply to degree totals as general elective credit.</small>					
Total Hours			Total Hours		
6			6		

Social Sciences

Select 9 credit hours to include one course to satisfy state requirement.

HST 106 or HST 120 or HST 130 or PLS 101	Modern World History or US History I: to 1865 or US History II: 1865-Present or American Government and Politics <small>At least one of these courses is required to satisfy state requirement.</small>	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 <small>At least one of these courses is required to satisfy state requirement.</small>	3
ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics or upper-level economics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics or upper-level economics	3
PSY 110	Intro to Psychology or upper-level psychology	3	PSYCH 1101	General Psychology or upper-level psychology	3
BUS 150 or ACC 220 or BUS 160	Principles of Management or Principles of Accounting I or Business Law <small>or other approved business course.</small>	3	BUS 1110 or BUS 1210 or BUS 2910	Intro to Management and Entrepreneurship or Financial Accounting or Business Law <small>or other approved business course; see Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/</small>	3
Social Science	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3	Social Science	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3
Total Hours			Total Hours		
9			9		

Humanities and Ethics

Select one humanities and one upper-level ethics course.

PHL 101	Intro to Philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy	3
ART 100	Art and Experience	3	ART 1185	Study of Film	3
MUS 105	Western Music Appreciation	3	MUS 1150	Music Understanding and Appreciation	3
THR 101	Intro to Theater	3	THEATRE 1190	Theatre via Video	3
ENG 240 or ENG 270 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I	3
Foreign Language	Any foreign language	3	Foreign Language	Any foreign language	3
Humanities	Other humanities elective from the list of approved courses at https://cs.mst.edu/undergraduate-degree/	3	Humanities	Other humanities elective from the list of approved courses at https://cs.mst.edu/undergraduate-degree/	3
Total Hours			Total Hours		
6			6		

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	8	Electives	Maximum Free Electives	8

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.