Ozarks Technical College — Missouri S&T
Computer Science BS Transfer Guide
Effective as of Fall 2023

Ozarks Technical College			Missouri S&T		

Communication Skills and (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	9		Total Hours	9

Computer Science, Mathematics, and Science (Take all courses)

CSC 160 or CSC 210 or CSC 140 or	Python Programming I (3) or Data Structures (4) or C++ Programming (4) *CSC 160 or CSC 210 are preferred. CSC 140 will be accepted in lieu of CS1500 if necessary.	3	CS 1500* or CS 1971,1981*	Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab* *CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary.	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) Satisfies science lecture/lab requirement.	4
	Total Hours	30		Total Hours	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 or Elementary Differential Equations Or other math 2000-level or higher or Any statistics 4000-level or higher	4
EGR 201	Engineering Statics	3	CIV ENG 2200	Statics Or other course with the equivalent of a Missouri S&T engineering designation.	3
	Any biology, chemistry, geology, or environmental science.	3		Any biology, chemistry, geology, or environmental science.	3
	Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3		Any physics excluding the equivalent of S&T PHYS 2111, 2119, 2135, and 2145.	3
	Total Hours	6		Total Hours	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	World History II or US History I: to 1865 or US History II: 1865-Present or American Government and Politics	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 (At least one of these courses is required to satisfy state requirement)	3
ECO 275 or ECO 270	Principles of Economics II or Principles of Economics I	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics (or upper-level economics)	3
PSY 110	Intro to 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	3	BUS 1110 or BUS 1210 or BUS 2910	Intro to Management and Entrepreneurship or Financial Accounting or Business Law (or other approved business course; see Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/)	3
	Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3		Other economics, history, political science, psychology, business elective from the Social Sciences Approved Electives at https://cs.mst.edu/undergraduate-degree/	3
	Total Hours	9		Total Hours	9

Humanities and Ethics
(Select one humanities and one 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
	Other humanities elective from the list of approved courses.	3		Other humanities elective from the list of approved courses.	3
	Total Hours	6		Total Hours	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 |
| | Maximum Free Electives | 8 | | 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.