

St. Louis Community 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.					
St. Louis Community College			Missouri S&T		
Communication Skills					
Take all courses.					
ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 103	College Composition II or Report Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
Total Hours		6	Total Hours		6
Computer Science, Mathematics, and Science					
Take all courses.					
MTH 212	Discrete Mathematics	3	COMP SCI 1200	Discrete Mathematics for Computer Science	3
ESC 101 or IS 167 or IS 187 or IS 280 or IS 267	Scientific Computer Programming (3) or C++ Programming I (4) or Java Programming I (4) or Python (3) or C++ Programming II (4)	3	CS 1500* or CS 1500* or CS 1500* or CS 1500* or CS 1971,1981*	Computational Problem Solving* (preferred) or Computational Problem Solving* (preferred) or Computational Problem Solving* (preferred) or Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab*	3
			*CS 1500 is preferred; CS 1971,1981 will be accepted in lieu of CS 1500 if necessary.		
MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus II	4
MTH 215	Linear Algebra	3	MATH 3108	Linear Algebra	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 230 or MTH 240	Analytical Geometry and Calculus III or Differential Equations Or other math 2000-level or higher or Any statistics 4000-level or higher	5	MATH 2222 or MATH 3304	Calculus III (4) or Elementary Differential Equations (3) Or other math 2000-level or higher Any statistics 4000-level or higher Credit hours apply to degree totals as indicated for each course.	3
ESC 203 or ESC 204 or ESC 205 or ESC 207 or ESC 200	Engineering Statics or Engineering Dynamics or Mechanics of Materials or Engineering Thermodynamics or Engineering Circuits I Or other course with the equivalent of a Missouri S&T engineering designation.		CIV ENG 2200 or MECH ENG 2350 or CIV ENG 2210 or MECH ENG 2519 or ELEC ENG 2800	Statics or Engineering Mechanics-Dynamics (2) or Mechanics of Materials or Thermodynamics or Electrical Circuits Or other course with the equivalent of a Missouri S&T engineering designation.	3
PHY 111 or PHY 122	College Physics I (4) or Engineering Physics (5)	4	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I Only one of these courses may be applied to the engineering/science elective requirement.	4
PHY 112 or PHY 223	College Physics II (4) or Engineering Physics II (5)	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		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 105 or BIO 111 or BIO 141 or PSI 111, 115	General Chemistry I (5) or Introductory Biology I (4) or Principles of Biology II (5) or Intro to Astronomy and Observational 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) 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)		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 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 211 or ENG 204 or ENG 205 or ENG 231 or HST 101* or HST 102* or ART 100 or MUS 114 or THT 101	British Literature II or American Literature I or American Literature II or World Literature or US History to 1865* or US History 1865 to Present* or Art Appreciation or Music Appreciation or Intro to Theatre *Satisfies the State of Missouri government requirement.	6	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 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
Behavioral and Social Sciences					
Select 6 hours from at least two specific disciplines, to include an upper-level ethics course.					
PHL 112	Business Ethics or other upper-level ethics elective	3	PHILOS 3235	Business Ethics Or other upper-level ethics elective. At least one upper-level ethics course is required.	3
HST 115 or HST 128* or GEG 101 or PSC 101* or PSY 200 or ECO 152 or ECO 151 or Foreign Language	Ancient and Medieval History to 1500 or Western Civilization 1500 to Present* or Regional Geography or Intro to American Politics* or General Psychology I or Principles of Microeconomics or Principles of 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
Humanities, Arts, and Social Sciences					
COM 107	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours		15	Total Hours		15
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
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.					
This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2025. Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu , transfer@mst.edu , or 800-522-0938.					