

# Moberly Area 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.

### Moberly Area Community College

### Missouri S&T

#### Communication Skills

Take all courses.

LAL 101	Composition I	3	ENGLISH 1160	Exposition and Argumentation	3
LAL 102	Composition II	3	ENGLISH 1160	Writing and Research	3
		Total Hours			Total Hours
		6			6

#### Computer Science, Mathematics, and Science

Take all courses.

ITC 125 or ITC 243 or ITC 244 or ITC 247 or ITC 220*	Object Oriented Programming I or Object-Oriented Programming II: Java or Object Oriented Programming : C# or Python Programming or Programming II*	3	COMP SCI 1500* or COMP SCI 1971*	Computational Problem Solving* (preferred) or Intro to Programming Methodology and Lab* *COMP SCI 1500 is preferred; COMP SCI 1971 will be accepted in lieu of COMP SCI 1500 if necessary. COMP SCI 1981 will be waived.	3
MTH 201	Analytic Geometry and Calculus I	5	MATH 1214	Calculus I	4
MTH 202	Analytic Geometry and Calculus II	5	MATH 1215	Calculus II	4
		Total Hours			Total Hours
		13			11

#### 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 203 or MTH 250	Analytic Geometry and Calculus III (5) or Differential Equations (3) Or other math 2000-level or higher or Any statistics 4000-level or higher	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 Satisfies the 3-hour science lecture/lab requirement. Credit hours apply to degree totals as indicated for each course.	3
EGN 201	Statics	3	CIV ENG 2200	Statics Or other course with the equivalent of a Missouri S&T engineering designation.	3
PHY 181 or PHY 201	General Physics I (4) or Engineering Physics I (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 182 or PHY 202	General Physics II (4) or Engineering Physics II (5)	4	PHYSICS 2135 or PHYSICS 2145	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
		*A maximum of 6 hours applies to engineering/science elective requirements. Any additional credit hours apply to degree totals as general elective credit.			
		Total Hours			Total Hours
		6			6

#### Natural Sciences General Education Requirements

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

PHY 121 or BIO 101 or BIO 155 or BIO 160 or PHY 162	General Chemistry I (5) or Biology (4) or General Biology for Majors I (4) or General Biology for Majors II (4) or General Astronomy (3)	3-5	CHEM 1310, 1319 or BIO SCI 1113, 1219 or BIO SCI 1113, 1219 or BIO SCI 1223, 1229 or PHYSICS 1505	General Chemistry I (4) and Lab (1) or General Biology (3) and Lab (1) or Principles of Biology (3) and Lab (1) or Biodiversity (3) and Lab (1) or Introductory Astronomy (3) Satisfies the gen ed natural science lecture/lab requirement. Lecture/lab pair must total a minimum of 4 hours.	3-5
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			Total Hours
		7			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.

LAL 150 or LAL 151 or LAL 120 or LAL 121 or LAL 210 or HST 105* or HST 106* or ART 101 or ART 102 or MUS 101 or MUS 102 or DRM 120	English Literature Survey to 1750 or English Literature Survey from 1750 to Present or American Literature Survey to 1870 or American Literature Survey from 1870 to Present or A Survey of World Literature I or American History to 1865* or American History from 1865* or Art Survey and Appreciation I or Art Survey and Appreciation II or Fundamentals of Music or Music Appreciation 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 ART 1180 or MUSIC 1150 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 Art Appreciation or Music Understanding and 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 101 or HST 102* or GEO 101 or PSC 105* or PSY 101 or ECN 102 or ECN 101 or Foreign Language	Western Civilization I or Western Civilization II* or World Geography I or Intro to American Government* 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

1185 is required.

SPMS

SPK 101	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.

EGN 101	Intro to 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.