

# St. Louis Community College — Missouri S&T

## Physics BS Transfer Guide

Effective as of Fall 2017

### 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	College Composition II	3	ENGLISH 1160	Writing and Research	3
COM 107	Public Speaking <small>(Required for AA degree)</small>	3	SPMS 1185	Principles of Speech <small>(Not required for S&amp;T degree. Transfers as free elective)</small>	3
Total Hours		9	Total Hours		9

#### Mathematics and Science (Take all courses)

MTH 210	Analytical Geometry and Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 220	Analytical Geometry and Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 230	Analytical Geometry and Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
CHM 105	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 106	General Chemistry II	5	CHEM 1320	General Chemistry II	3
PHY 122	Engineering Physics	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	4
Total Hours		35	Total Hours		28

#### Social Sciences (Select 9 hours)

HST 128 or HST 101 or HST 102 or PSC 101	Western Tradition II or American History I or American History II or Introduction to American 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
Total Hours		9	Total Hours		9
<i>See your advisor for course options</i>			Social Sciences	Social Sciences Elective: Any economics, history, political science, sociology, psychology elective	6
Total Hours		9	Total Hours		9

#### Humanities (Select 6 credit hours to include one literature and one additional humanities)

<i>See your advisor for course options</i>			Literature Elective (required)		3
PHL 102	Introduction to Logic	3	PHILOS 1115	Intro to Logic (preferred)	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
<i>See your advisor for course options</i>			Other fine art, literature, or philosophy elective		3
Total Hours		6	Total Hours		6

#### Additional Degree Requirements (Select up to 12 hours)

MTH 240	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 215	Linear Algebra	3	MATH 3108	Linear Algebra	3
IS 227 or ESC 101	C Programming Language or Scientific Computer Programming	3	CS 1971, 1981 or CS 1570	Intro to Programming Method and Lab (C++) or Intro to Programming (C++)	3
BIO 140	Principles of Biology I <small>(Required for AA degree)</small>	3	BIO SCI 1113	General Biology <small>(Transfers as required free elective)</small>	3
Total Hours		12	Total Hours		12

#### 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.