

St. Louis Community College — Missouri S&T

Physics BS with Secondary Education Teacher Certification 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	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			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
PHY 122	Engineering Physics	5	PHYSICS 1135	Engineering Physics I	4
PHY 223	Engineering Physics II	5	PHYSICS 2135	Engineering Physics II	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
Total Hours			Total Hours		
35			28		

Social Sciences (Take all courses)

HST 101 or HST 102 or HST 128	American History I or American History II or Western Tradition II	3	HISTORY 1300 or HISTORY 1310 or HISTORY 1200	American History to 1877 or American History Since 1877 or Modern Western Civilization	3
PSC 101	Introduction to American Politics	3	POL SCI 1200	American Government	3
PSY 200	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		
3			9		

Humanities (Take all courses)

ART 100 or MUS 103 or THT 101	Art Appreciation or Basic Music or Introduction to Theatre <i>See your advisor for course options</i>	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation Literature Elective	3
Total Hours			Total Hours		
3			6		

Additional Degree Requirements (Select up to 10 credit hours)

MTH 240	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
BIO 140	Principles of Biology I	3	BIO SCI 1113	General Biology	3
Total Hours			Total Hours		
12			6		

Additional Courses for Teacher Certification Option (Take all courses)

EDU 211 or EDU 227	Foundations of Education or Educational Psychology	3	EDUC 1040 PSYCH 2300 or EDUC 2102	Perspectives in Education Educational Psychology	2 3
PSY 205	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
Total Hours			Total Hours		
9			8		

***Teacher certification notes:** Passing scores on MoGEA and MoCA are required. Students must maintain a minimum 2.75 cumulative GPA and a minimum 3.0 content GPA. Students completing this program will have a BA degree in Chemistry with secondary education teacher certification.

Maximum credit hours to be transferred to Missouri S&T degree requirements.

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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.