

Jefferson College — Missouri S&T

Applied Math BS with Secondary Education Teacher Certification Transfer Guide Effective as of Fall 2017

Partner School

Missouri S&T

Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	Composition and Rhetoric II	3	ENGLISH 1160	Writing and Research	3
SPD 175	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			9		

Mathematics and Science (Take all courses)

MTH 180	Calculus I	5	MATH 1214	Calculus for Engineers I	4
MTH 185	Calculus II	5	MATH 1215	Calculus for Engineers II	4
MTH 201	Calculus III	5	MATH 2222	Calculus with Analytic Geometry III	4
PHY 123	General Physics I	4	PHYSICS 1135	Engineering Physics I	4
PHY 124	General Physics II	4	PHYSICS 2135	Engineering Physics II	4
Total Hours			Total Hours		
23			20		

Social Sciences (Take all courses)

HST 103 or HIST 104	American History I or American History II	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History Since 1877	3
PSC 102	US and Missouri Govt. and Constitution	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
ECO 102 or ECO 101	Microeconomics or Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
Total Hours			Total Hours		
12			12		

Humanities (Take all courses)

ARI 101 or MUS 121 or SPD 120 or PHL 102	Art Appreciation or Appreciation of Music or Intro to Theatre or Intro to Philosophy <i>See your advisor for course options</i>	3	ART 1180 or MUSIC 1150 or THEATRE 1190 or PHILOS 1105	Art Appreciation or Music Appreciation or Theatre Appreciation or Introduction to Philosophy Literature Elective	3
Total Hours			Total Hours		
6			6		

Additional Degree Requirements (Select up to 14 hours)

MTH 205	Differential Equations	3	MATH 3304	Elementary Differential Equations	3
MTH 172	Linear Algebra	3	MATH 3108	Linear Algebra	3
BIO 102	Concepts in Biology	5	BIO SCI 1113, 1219	General Biology and Lab	5
CIS 155 or CIS 152	Intro to Computer Programming or Fortran Programming	3	COMP SCI 1570,1580 or COMP SCI 1970, 1980	Intro to Programming or Basic Scientific Prgramming and Lab	3
Total Hours			Total Hours		
14			14		

Additional Courses for Teacher Certification Option (Take all courses)

EDU 230	Teaching Profession with Field Experience	3	EDUC 1040	Perspectives in Education	2
EDU 225	Educational Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3
PSY 170	Child Psychology	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.

72

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.