

East Central College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2017

East Central College

Missouri S&T

Communication Skills (Take all courses)

ENG 101	English Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	English Composition II	3	ENGLISH 1160	Writing and Research	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours		9	Total Hours		9

Social Sciences (Take all courses)

PSC 102	US Government: National and State	3	POL SCI 1200	American Government	3
PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3
Total Hours		6	Total Hours		6

Humanities (Take all courses)

ART 101 or MUS 101 or THE 101	Art Appreciation or Music Appreciation or Theatre Appreciation	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre Appreciation	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
	Literature Elective	3		Literature Elective	3
Total Hours		9	Total Hours		9

Mathematics and Sciences (Take all courses)

MTH 183	College Algebra	3	MATH 1140 or MATH 1208	College Algebra or Calculus with Analytical Geometry I or higher level math	3 or 3 or 5
CHM 111	General Chemistry I and Lab	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 112	General Chemistry II and Lab	5	CHEM 1320	General Chemistry II	3
BIO 121	Principles of Biology and Lab	5	BIO SCI 1213, 1219	Principles of Biology and Lab	5
Total Hours		18	Total Hours		16-18

Additional Degree Requirements (Select up to 9 hours)

PHY 111	College Physics I Lecture	3	PHYSICS 1145	College Physics I	3
GEO 101	Introduction to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 122	Principles of Biology II and Lab	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
EVR 103	Introduction to Environmental Sciences	3	BIO SCI 1173	Introduction to Environmental Sciences	3
BIO 110	Ecology	3	BIO SCI 2263	Ecology	3
CHM 205	Organic Chemistry I and Lab	5	CHEM 2210	Organic Chemistry I	4
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220	Organic Chemistry II	4
CIV 201	European Civilization I	3	HISTORY 1100	Early Western Civilization	3
CIV 202	European Civilization II	3	HISTORY 1200	Modern Western Civilization	3
	<i>See your advisor for course options</i>			Mathematics, physics, or geology elective	
Total Hours		13	Total Hours		13

Teacher Certification Requirements (Take all courses)

EDU 201 or EDU 214	Foundations of Education or Multicultural Education	3	EDUC 1040	Perspectives in Education	2
EDU 241	Educational Psychology	3	PSYCH 2300 or EDUC 2102	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 3310	Developmental Psychology	3
				Biological Sciences Computer Elective	3
Total Hours		9	Total Hours		11

***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.