

East Central College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification Transfer Guide

Effective as of Fall 2023

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 or	English Composition II or	3	ENGLISH 1160 or	Writing and Research or	3
ENG 104	Technical Writing	3	ENGLISH 3560	Technical Writing	3
COM 110	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		
9			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			Total Hours		
6			6		

Humanities (Take all courses)

ART 101 or	Art Appreciation or		ART 1180 or	Art Appreciation or	
MUS 101 or	Music Appreciation or	3	MUSIC 1150 or	Music Appreciation or	3
THE 101	Theatre Appreciation		THEATRE 1190	Theatre via Video	
PHL 101 or	Intro to Philosophy or		PHILOS 1105 or	Intro to Philosophy or	
PHL 111	Intro to Logic	3	PHILOS 1115	Intro to Logic	3
ENG 210 or	Survey British Lit: Beginnings - 1784 or		ENGLISH 1211 or	British Literature I: The Beginnings to 1800 or	
ENG 221 or	Survey American Lit: Beginnings - 1865 or		ENGLISH 1221 or	American Literature: 1600 to 1865 or	
ENG 124 or	World Literature I or	3	ENGLISH 1231 or	World Literature I or	3
ENG 214 or	Women's Literature or		ENGLISH 2242 or	Literature by Women or	
ENG 215	African-American Literature (or other literature elective)		ENGLISH 2245 or	African American Literature (or other literature elective)	
Total Hours			Total Hours		
9			9		

Mathematics and Sciences (Take all courses)

MTH 110 or	Intermediate Algebra or	3	MATH 1103 or	Fundamentals of Algebra or	3
MTH 183	College Algebra (or higher level math)		MATH 1140	College Algebra (or higher math)	
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, 1510*	General Chemistry II and Quantitative Analysis* <small>*Note: CHEM 1510 is not an S&T degree requirement; course will transfer as elective credit.</small>	3
BIO 121	Principles of Biology I and Lab	5	BIO SCI 1213, 1219	Principles of Biology and Lab	5
Total Hours			Total Hours		
18			16		

Additional Degree Requirements

Select additional courses to total up to the maximum transfer credit hours shown below.

PHY 111 or	College Physics I or	3	PHYSICS 1145 or	College Physics I or	3
PHY 102	Intro to Astronomy		PHYSICS 1505	Astronomy	
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	5
EVR 103	Introduction to Environmental Sciences	3	BIO SCI 1173	Intro 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
MTH 150 or	Statistics or		STAT 1115 or	Statistics for Social Sciences I or	
BUS 210 or	Basic Business Statistics or		STAT 1115 or	Statistics for Social Sciences I or	
MTH 242 or	Engineering Statistics or		STAT 3115 or	Engineering Statistics or	
CIS 143 or	Implementing Info Sys.-User Perspective or	3-4	IST 1551 or	Implementing Infor Sys: User Persp or	3
EGR 221, 222 or	C++ Program Engineers and Lab (4) or		CS 1971, 1981 or	Computational Problem Solving	
EGR 251	Data Structures <small>(Or other statistics or computer class. Statistics preferred; computer class is acceptable.)</small>		CS 1500	Computational Problem Solving <small>(Or other statistics or computer class. Statistics preferred; computer class is acceptable.)</small>	

Teacher Certification Requirements (Take all courses)

EDU 201 or	Foundations of Education or	3	EDUC 1040	Perspectives in Education	2
EDU 214	Multicultural Education		PSYCH 2300 (EDUC 2102)	Educational Psychology	3
EDU 241	Educational Psychology	3	PSYCH 3310	Developmental Psychology	3
PSY 250	Human Development	3	PSYCH 4310	Psychology of the Exceptional Child	3
EDU 244	Education of the Exceptional Learner	3			

Professional Requirements for Teacher Education Program: Please view all program requirements at <https://teachereducation.mst.edu/secondaryeducation/>.

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.