

East Central College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2026

Students are not required to complete all courses on this guide before transferring to Missouri S&T.

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 ENG 104	English Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	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

Select 9 hours to include at least one course in each of the following areas: fine arts (art, music, or theatre), philosophy, literature.

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 via Video	3
PHL 101 or PHL 111	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Self and World: Intro to Philosophy or Logic and Reasoning: An Introduction	3
ENG 210 or ENG 221 or ENG 124 or ENG 214 or ENG 215	Survey British Lit: Beginnings - 1784 or Survey American Lit: Beginnings - 1865 or World Literature I or Women's Literature or African-American Literature or any literature with prerequisite of no more than English Composition I.	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245 or	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or Literature by Women or African American Literature or any literature with prerequisite of no more than ENGLISH 1120.	3
		Total Hours	9		
				Total Hours	9

Mathematics and Sciences

Take all courses.

MTH 102 or MTH 108 or MTH 134 or MTH 170 or MTH 150	Business Mathematics or Technical Mathematics or Math for Fine and Performing Arts or College Algebra or Statistics or higher math or statistics	3	MATH 1110 or MATH 1140 or STAT 1115	Mathematical Reasoning and Modeling or College Algebra or Statistics for the Social Sciences or higher math or statistics	3
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 (3) and Qualitative Analysis (2) *CHEM 1510 is not an S&T degree requirement. Will transfer as general credit.	3
BIO 111 or BIO 121	General Biology Lecture and Lab or Principles of Biology I and Lab	5	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology and Lab or Principles of Biology and Lab	4
		Total Hours	18		
				Total Hours	15

Additional Degree Requirements

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

PHY 111 or PHY 102	College Physics I or Intro to Astronomy	3	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Astronomy (3) Satisfies a 3-hour science requirement. Any additional credits apply to degree totals as general elective credit.	3-4
GEO 101	Intro 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	3
CHM 206	Organic Chemistry II and Lab	5	CHEM 2220	Organic Chemistry II	3
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 BUS 210 or MTH 242 or CIS 143 or EGR 221, 222 or EGR 251	Statistics or Basic Business Statistics or Engineering Statistics or Implementing Info Sys.-User Perspective or C++ or Program Engineers and Lab (4) or Data Structures Or other statistics or computer class. Statistics preferred; computer class is acceptable.	3-4	STAT 1115 or STAT 1115 or STAT 3115 or IST 1551 or CS 1971,1981 or CS 1500	Statistics for Social Sciences I or Statistics for Social Sciences I or Engineering Statistics or Implementing Infor Sys: User Persp or Computational Problem Solving Or other statistics or computer class. Statistics preferred; computer class is acceptable. Satisfies a 3-hour computer science/statistics requirement. Any additional credit hours apply to degree totals as general elective credit.	3

Teacher Certification Requirements

Take all courses.

EDU 201 or EDU 214	Foundations of Education or Multicultural Education	3	EDUC 1074	Education in a Diverse Society	3
EDU 190 or EDU 212	CDA Capstone-Childcare Practicum or Teaching Professional/Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 241	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 3310	Developmental Psychology	3
EDU 244	Education of the Exceptional Learner	3	EDUC 2310 or PSYCH 4310	Education of the Exceptional Child or Psychology of the Exceptional Child	3
		Total Hours	15		
				Total Hours	13

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.
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This transfer guide is published by Missouri University of Science and Technology and is in effect as of Fall 2026.
Further information or updates are available from Missouri S&T Transfer Admissions at transfer.mst.edu, transfer@mst.edu, or 800-522-0938.