

Ozarks Technical Community College — Missouri S&T

Biological Sciences BA with Secondary Education Teacher Certification

Transfer Guide Effective as of Fall 2025

Ozarks Technical Community College

Missouri S&T

Communication Skills

Take all courses.

ENG 101	Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102 or ENG 150	Composition II or Technical Writing	3	ENGLISH 1160 or ENGLISH 3560	Writing and Research or Technical Writing	3
COM 105	Public Speaking	3	SPMS 1185	Principles of Speech	3
		Total Hours	9	Total Hours	

Social Sciences

Take all courses.

PLS 101	American Government and Politics	3	POL SCI 1200	American Government	3
PSY 110	Intro to Psychology	3	PSYCH 1101	General Psychology	3
		Total Hours	6	Total Hours	

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 100 or MUS 105 or THR 101	Art and Experience or Western Music Appreciation or Intro to Theater or other fine art	3	ART 1180 or MUSIC 1150 or THEATRE 1190	Art Appreciation or Music Appreciation or Theatre via Video or other fine art	3
PHL 101	Intro to Philosophy or other philosophy	3	PHILOS 1105	Self and World: Intro to Philosophy or other philosophy	3
ENG 240 or ENG 270 or ENG 260	Survey of English Literature I or Survey of American Literature I or Survey of World Literature I or other literature elective	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1231	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 or World Literature I or other literature	3
		Total Hours	9	Total Hours	

Mathematics and Sciences

Take all courses.

MTH 130	College Algebra or higher math	3	MATH 1140	College Algebra or higher math	3
CHM 160, 161	General Chemistry I	5	CHEM 1310, 1319	General Chemistry I and Lab	5
CHM 170	General Chemistry II	3	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 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113, 1219	General Biology and Lab	4
		Total Hours	15	Total Hours	

Additional Degree Requirements

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

PHY 120 or PHY 100	General Physics or Intro to Astronomy	4	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
PHY 110	Intro to Geology	4	GEOLOGY 1110	Physical and Environmental Geology	3
BIO 170	General Biology II	4	BIO SCI 1223, 1229	Biodiversity and Lab	5
BIO 105	Environmental Science	4	BIO SCI 1173	Intro to Environmental Sciences	3
BIO 250	Genetics	4	BIO SCI 2223	General Genetics	3
BIO 275	Environmental Biology	4	BIO SCI 2263	Ecology	3
CHM 242	Organic Chemistry I	5	CHEM 2210	Organic Chemistry I	3
CHM 243	Organic Chemistry II	5	CHEM 2220	Organic Chemistry II	3
HST 105	Ancient and Medieval World History	3	HISTORY 1100	Early Western Civilization	3
HST 106	Modern World History	3	HISTORY 1200	Modern Western Civilization	3
MTH 129 or MTH 210 or CSC 160 or CC 210 or CSC 140	Introductory Statistics (3) or Statistical Methods (3) or Python Programming I (3) or Data Structures (4) or C++ Programming I (4) Or other statistics or computer class. Statistics preferred; computer class is acceptable.	3	STAT 1115 or CS 1500 or CS 1971, 1981	Statistics for Social Sciences I or Problem Solving or Intro to Programming Method and Lab 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 220	Foundations of Education	3	EDUC 1074	Education in a Diverse Society	3
EDU 270	Teaching Profession with Field Experience	3	EDUC 1104	Teacher Field Experience I	1
EDU 250	Educational Psychology	3	EDUC 2102 or PSYCH 2300	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3
EDU 260	Education 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	

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.

must receive special permission from Missouri S&T to apply more than the maximum credit hours listed above toward the Missouri S&T degree.

required to complete all courses on this guide before transferring to Missouri S&T.

Students

Students are not