

East Central College — Missouri S&T

Environmental Science BS with Secondary Education Teacher Certification in Earth Science

Transfer Guide Effective as of Fall 2025

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
		Total Hours	6		
				Total Hours	6

Humanities and Social Sciences

Take all courses.

PSY 101	General Psychology	3	PSYCH 1101	General Psychology	3		
CIV 202 or	European Civilization II or	3	HISTORY 1100 or	Early Western Civilization or	3		
HST 101 or	US History to 1865 or		HISTORY 1200 or	Modern Western Civilization or			
HST 102 or	US History 1865-1945 or		HISTORY 1300 or	American History to 1877 or			
PSC 102	US Government National and State		HISTORY 1310	American History since 1877			
ECO 102	Principles of Microeconomics	3	ECON 1100	Principles of Microeconomics	3		
PHL 203	Ethics	3	PHILOS 1130	How Should I Live? An Intro to Ethics	3		
		Total Hours	12			Total Hours	12

Mathematics and Sciences

Take all courses.

			Take an courses:		
MTH 190	Analytic Geometry & Calculus I	5	MATH 1214 or MATH 1215	Calculus I or Calculus II	4
MTH 242	Engineering Statistics	3	STAT 3115	Engineering 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
EVR 103	Intro to Environmental Sciences	3	BIO SCI 1173	Intro to Environmental Sciences	3
PHY 111, 112 or PHY 211, 212	College Physics I and Lab (5) or General Physics I and Lab (5)	5	PHYSICS 1145 or PHYSICS 1135	College Physics I or Engineering Physics I	4
		Total Hours	26		
				Total Hours	22

Teacher Certification Requirements

Take all courses.

Part A: Required Courses					
EDU 201 or EDU 214	Foundations of Education or Multicultural Education	3	EDUC 1074	Education in a Diverse Society	2
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	12

Major/Additional Requirements

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

BIO 122	Principles of Biology II and Lab	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
BIO 110	General Ecology	4	BIO SCI 2263	Ecology	3
GEO 101	Intro to Physical Geology	3	GEOLOGY 1110	Physical and Environmental Geology	3
PHY 102	Introductory Astronomy	3	PHYSICS 1505, 1509	Introductory Astronomy and Lab	4

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.

60

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.