

East Central College — Missouri S&T

Elementary Education - STEM Focus

Effective Fall 2020

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		

Humanities (Take all courses)

ART 101 or MUS 101	Art Appreciation or Music Appreciation	3	ART 1180 or MUS 1150	Art Appreciation or Music Appreciation	3
ENG 210 or ENG 221 or ENG 124 or ENG 214 or ENG 215	Survey British Lit: Beginnings to 1784 or Survey American Lit: Colonial to 1865 or World Literature I or Women's Literature or African-American Literature (or other literature elective)	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 other literature elective)	3
PHL 101 or PHL 111	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Introduction to Philosophy or to Logic	3
Total Hours			9		

Social Sciences (Select up to 16 credit hours)

ECO 102 or ECO 101	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	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
HST 101 or HST 102	US History to 1865 or US History 1865-1945	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
GRY 101	World Geography	3	HISTORY 2110	World Regional Geography	3
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			16		

Mathematics and Sciences (Select up to 16 credit hours)

BIO 111	General Biology I and Lab	5	BIO SCI 1113, 1219	General Biology and Lab	5
BIO 122	Principles of Biology II and Lab	5	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 111 or GEO 101	General Chemistry I and Lab (5) or Intro to Physical Geology (3)	3-5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab or Physical and Environmental Geology	3-5
CIS 143 or EGR 221,222	Implementing Info Sys-User Perspective or C++ Program Engineers and Lab (4)	3	IST 1551 or CS 1971,1981	Implement Info Systems: User Perspective or Intro to Programming Methodology and Lab (C++)	3
MTH 183	College Algebra	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or PHY 102	College Physics I or Intro to Astronomy	3	PHYSICS 1145 or PHYSICS 1505	College Physics I or Astronomy	3
Total Hours			16		

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 13	Literature for Children	3	EDUC 3430	Children's Literature	3
EDU 241	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 250	Human Development	3	PSYCH 3310	Developmental Psychology	3
EDU 244	Education of the Exceptional Learner	3	PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			15		

***Teacher certification notes:** An ACT of 22 or a 220 on the MoGEA is required for professional standing in the department. Students must pass the MoCA, maintain a 2.75 cumulative GPA, and a 3.0 content GPA to qualify for student teaching. Students completing this program will earn a BA in Multidisciplinary Studies.

Maximum credit hours to be transferred to Missouri S&T degree requirements.

64

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.