

Ozarks Technical College — Missouri S&T

Elementary Education - STEM Focus

Effective Fall 2020

Ozarks Technical College

Missouri S&T

Communication Skills (Take all courses)

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

Humanities (Take all courses)

ART 100 or MUS 105	Art and Experience or Western Music Appreciation	3	ART 1180 or MUS 1150	Art Appreciation or Music Appreciation	3
ENG 340 or ENG 350 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 elective)	3
PHL 101	Introduction to Philosophy	3	PHILOS 1105	Introduction to Philosophy	3
		Total Hours			Total Hours
		9			9

Social Sciences (Select up to 16 credit hours)

ECO 275 or ECO 270	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HST 105	World History I	3	HISTORY 1100	Early Western Civilization	3
HST 106	World History II	3	HISTORY 1200	Modern Western Civilization	3
HST 120 or HST 130	US History I: to 1865 or US History II: 1865-Present	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
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			Total Hours
		16			16

Mathematics and Sciences (Select up to 16 credit hours)

BIO 100 or BIO 160	Life Science or General Biology I	4	BIO SCI 1113,1219	General Biology (3) and Lab (2)	5
CHM 160,161 or GEO 1110	General Chemistry I and Lab (5) or Intro to Geology (4)	4-5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3)	3-5
CIS 150 or CSC 140	C# Programming I (3) or C++ Programming (4)	3-4	IST 1551 or CS 1971, 1981	Implement Info Systems: User Perspective or Intro to Programming Method and Lab (C++)	3
MATH 130	College Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 120 or PHY 115	General Physics I or Intro to Astronomy	4	PHYSICS 1145,1119* or PHYSICS 1505	College Physics I and Lab* or Astronomy	3
		Total Hours			Total Hours
		18			17

*Note: PHYSICS 1119 is not an S&T degree requirement; will transfer as elective credit.

Teacher Certification Requirements (Take all courses)

EDU 220	Foundations of Education	3	EDUC 1040	Perspectives in Education	2
ENG 250	Children's Literature	3	EDUC 3430	Children's Literature	3
EDU 250	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 130	Life Span Developmental Psychology	3	PSYCH 3310	Developmental Psychology	3
EDU 260	Education Exceptional Learner	3	PSYCH 4310	Psychology of the Exceptional Child	3
		Total Hours			Total Hours
		15			14

***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.

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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.