

St. Louis Community Colleges — Missouri S&T

Elementary Education - STEM Focus

Effective Fall 2020

St. Louis Community Colleges

Missouri S&T

Communication Skills (Take all courses)

ENG 101	College Composition I	3	ENGLISH 1120	Exposition and Argumentation	3
ENG 102	College Composition II	3	ENGLISH 1160	Writing and Research	3
COM 107	Public Speaking	3	SPMS 1185	Principles of Speech	3
Total Hours			Total Hours		

Humanities (Take all courses)

ART 100 or MUS 114	Art Appreciation or Music Appreciation	3	ART 1180 or MUS 1150	Art Appreciation or Music Appreciation	3
ENG 210 or ENG 204 or ENG 205 or ENG 231 or ENG 216 or ENG 217	British Literature I or American Literature I or American Literature II or World Literature or Women in Literature or Major Black Writers (or other literature elective)	3	ENGLISH 1211 or ENGLISH 1221 or ENGLISH 1221 or ENGLISH 1231 or ENGLISH 2242 or ENGLISH 2245	British Literature I: The Beginnings to 1800 or American Literature: 1600 to 1865 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 102	Intro to Philosophy or Intro to Logic	3	PHILOS 1105 or PHILOS 1115	Intro to Philosophy or Intro to Logic	3
Total Hours			Total Hours		

Social Sciences (Select up to 16 credit hours)

ECO 152 or ECO 151	Principles of Microeconomics or Principles of Macroeconomics	3	ECON 1100 or ECON 1200	Principles of Microeconomics or Principles of Macroeconomics	3
HST 117	Early Modern Europe	3	HISTORY 1100	Early Western Civilization	3
HST 128	Western Civilization 1500 to Present	3	HISTORY 1200	Modern Western Civilization	3
HST 101 or HST 102	US History to 1865 or US History 1865 to Present	3	HISTORY 1300 or HISTORY 1310	American History to 1877 or American History since 1877	3
GEG 101	Regional Geography	3	HISTORY 2110	World Regional Geography	3
PSC 101	Intro to American Politics	3	POL SCI 1200	American Government	3
PSY 200	General Psychology I	3	PSYCH 1101	General Psychology	3
Total Hours			Total Hours		

Mathematics and Sciences (Select up to 16 credit hours)

BIO 111 or BIO 140	Intro to Biology I (4) or Principles of Biology I (5)	4-5	BIO SCI 1113, 1219 or BIO SCI 1213, 1219	General Biology (3) and Lab (2) or Principles of Biology (3) and Lab (2)	5
BIO 141	Principles of Biology II	4	BIO SCI 1223, 1229	Biodiversity and Lab	4
CHM 105 or GEO 111	General Chemistry I or Physical Geology	5	CHEM 1310, 1319 or GEOLOGY 1110	General Chemistry I and Lab (5) or Physical and Environmental Geology (3)	3-5
ESC 101 or IS 153	Scientific Computer Programming (3) or C# Programming (4)	3-4	CS 1971, 1981 or IST 1551	Intro to Programming Method and Lab (C++) or Algorithms and Programming in JAVA	3
MTH 160	Precalculus Algebra (or higher level math)	3	MATH 1140	College Algebra (or higher level math)	3
PHY 111 or PSI 111	College Physics I or Intro to Astronomy	4	PHYSICS 1145 or PHYSICS 1505	College Physics I (4) or Introductory Astronomy (3)	3
Total Hours			Total Hours		

Teacher Certification Requirements (Take all courses)

ENG 226	Children's Literature	3	EDUC 3430	Children's Literature	3
EDU 211 or EDU 220	Foundations of Education or Teaching Profession with Field Exp	3	EDUC 1040	Perspectives in Education	2
EDU 227	Educational Psychology	3	PSYCH 2300 (EDUC 2102)	Educational Psychology	3
PSY 205	Human Growth and Development	3	PSYCH 3310	Developmental Psychology	3
EDU 219	Education of Exceptional Learners	3	PSYCH 4310	Psychology of the Exceptional Child	3
Total Hours			Total Hours		

***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.