TEACHER EDUCATION: MIDDLE GRADES EDUCATION PATHWAY (STEM), A.S.

School of Social Sciences and Education

The Associate of Science degree in Teacher Education Middle Grades Education (STEM) introduces students to key concepts and theories in the field of middle grades STEM education. Students will develop written and oral communication skills and examine issues and take coursework related to the STEM pathway. This degree program prepares students to succeed in a bachelor's program in Education. This program can be completed online.

To qualify for graduation, students must meet all graduation requirements (http://catalog.highlands.edu/academic-information/#graduationrequirements).

Code	Title	Hours	Completed
A. Essential Skills			_____
ENGL 1101	English Composition I	3	_____
ENGL 1102	English Composition II	3	_____
Select one of the following or a mathematics course for which one of these is a prerequisite:		3	_____
MATH 1001	Quantitative Reasoning		_____
MATH 1111	College Algebra (recommended)		_____
MATH 1113	Precalculus [2]		_____
B. Institutional Options			_____
Select one of the following:		2-3	_____
COMM 1100	Human Communication		_____
COMM 1110	Public Speaking		_____
Select one of the following:		2	_____
GHHU 2901	Special Topics: Humanities		_____
GHMA 2901	Special Topics: Mathematics		_____
GHSC 2901	Special Topics:Science		_____
GHSS 2901	Special Topics: Social Science		_____
C. Humanities/Fine Arts			_____
Select one of the following:		3	_____
ENGL 2111	World Literature I		_____
ENGL 2112	World Literature II		_____
ENGL 2121	British Literature I		_____
ENGL 2122	British Literature II		_____
ENGL 2131	American Literature I		_____
ENGL 2132	American Literature II		_____
ENGL 2135	Latino Literature		_____
ENGL 2140	African-American Literature		_____
Select one of the following:		3	_____
ARTS 1100	Art Appreciation		_____
ARTS 1111	Art History to Renaissance		_____
ARTS 1112	Art History Renaissance to Pre		_____
ENGL 2010	Humanities in Drama		_____
ENGL 2111	World Literature I		_____
ENGL 2112	World Literature II		_____
ENGL 2121	British Literature I		_____
ENGL 2122	British Literature II		_____
ENGL 2131	American Literature I		_____
ENGL 2132	American Literature II		_____
ENGL 2135	Latino Literature		_____
ENGL 2140	African-American Literature		_____
FILM 1100	Film Appreciation		_____
FILM 2700	History of Motion Pictures		_____
HUMS 2011	Studies In Humanities		_____
MUSC 1100	Music Appreciation		_____
PHIL 2010	Introduction to Philosophy		_____
RELI 1116	Intro to Religion		_____
SPAN 1001	Elementary Spanish I		_____
SPAN 1002	Elementary Spanish II		_____
SPAN 2001	Intermediate Spanish I		_____
SPAN 2002	Intermediate Spanish II		_____
THEA 1100	Theater Appreciation		_____
D. Science, Mathematics, and Technology			_____
Select one two-course science sequence of the following:		8	_____

BIOL 1107K & BIOL 1108K	Principles of Biology I and Principles of Biology II		_____
CHEM 1211 & 1211L & CHEM 1212 & CHEM 1212L	Principles of Chemistry I and Principles of Chemistry I Lab and Principles of Chemistry II and Principles of Chemistry II Lab		_____
PHYS 1111K & PHYS 1112K	Introductory Physics I and Introductory Physics II		_____
PHYS 2211K & PHYS 2212K	Principles of Physics I and Principles of Physics II		_____
Select one of the following:		3-4	_____
MATH 1113	Precalculus [2]		_____
MATH 2040	Applied Calculus		_____
MATH 2261	Calculus I		_____
STAT 1401	Elementary Statistics		_____
E. Social Sciences			_____
POLS 1101	American Government	3	_____
HIST 2111	American History I	3	_____
or HIST 2112	American History II		_____
Select one of the following:		3	_____
HIST 1111	World Civilization to 1500		_____
HIST 1112	World Civ Since 1500		_____
HIST 1121	Western Civilization I		_____
HIST 1122	Western Civilization II		_____
Select one of the following:		3	_____
ECON 2105	Principles of Macroeconomics		_____
HIST 1111	World Civilization to 1500		_____
HIST 1112	World Civ Since 1500		_____
HIST 1121	Western Civilization I		_____
HIST 1122	Western Civilization II		_____
HIST 2111	American History I		_____
HIST 2112	American History II		_____

HIST 2154	Minorities in U.S. History		_____
HIST 2400	Economic History		_____
POLS 2401	Intro to Global Issues		_____
POLS 2501	Intro to Domestic Issues		_____
PSYC 1101	Intro to General Psychology		_____
RELI 1116	Intro to Religion		_____
SOCI 1101	Introductory Sociology		_____
SOCI 1160	Intro to Social Problems		_____
F. Courses Related to the Program of Study			_____
EDUC 2110	Critical & Contemporary Educ	3	_____
EDUC 2120	Diversity in Education	3	_____
EDUC 2130	Exploring Learning & Teaching	3	_____
Select nine hours from two teaching areas of the following, no more than two courses in each area:		9	_____
Sciences			_____
ASTR 1010K	Astronomy of the Solar System		_____
ASTR 1020K	Stellar and Galactic Astronomy		_____
BIOL 1010 & 1010L	Introduction to Biology I and Introduction to Biology I Lab		_____
BIOL 1012 & 1012L	Introduction to Biology II and Introduction to Biology II Lab		_____
BIOL 2154K	General Zoology		_____
BIOL 2190	Principles of Nutrition		_____
CHEM 1151K	Survey of Chemistry I		_____
CHEM 1152K	Survey of Chemistry II		_____
GEOL 1121K	Physical Geology		_____
GEOL 1122K	Historical Geology		_____
PHYS 1111K	Introductory Physics I		_____
PHYS 1112K	Introductory Physics II		_____
Language Arts			_____

ENGL 2010	Humanities in Drama		_____
ENGL 2111	World Literature I		_____
ENGL 2112	World Literature II		_____
ENGL 2116	Creative Writing		_____
ENGL 2117	Advanced Creative Writing		_____
ENGL 2121	British Literature I		_____
ENGL 2122	British Literature II		_____
ENGL 2131	American Literature I		_____
ENGL 2132	American Literature II		_____
ENGL 2135	Latino Literature		_____
ENGL 2140	African-American Literature		_____
SPAN 2001	Intermediate Spanish I		_____
SPAN 2002	Intermediate Spanish II		_____
Mathematics [3]			_____
MATH 1113	Precalculus [3]		_____
MATH 2040	Applied Calculus		_____
MATH 2261	Calculus I		_____
MATH 2262	Calculus II		_____
MATH 2263	Calculus III		_____
STAT 1401	Elementary Statistics		_____
Social Sciences			_____
HIST 1111	World Civilization to 1500		_____
HIST 1112	World Civ Since 1500		_____
HIST 1121	Western Civilization I		_____
HIST 1122	Western Civilization II		_____
HIST 2111	American History I		_____
HIST 2112	American History II		_____
HIST 2154	Minorities in U.S. History		_____
HIST 2400	Economic History		_____
POLS 2301	Intro to Comparative Politics		_____
POLS 2401	Intro to Global Issues		_____
POLS 2501	Intro to Domestic Issues		_____
Institutional Requirements Outside the Core			_____

PHED 1010	Concepts of Fitness/Health	2	_____
Additional two credit hours of physical education		2	_____
Total Hours		**64-66**	_____

[1]

Strongly Recommended for Mathematics Concentration

[2]

Students concentrating in mathematics for Middle Grades Education are required to complete MATH 1113 Precalculus as part of the core curriculum. MATH 1113 Precalculus can be used to satisfy requirements in one of the following areas: Area A, D or F.

[3]

Required if not taken in Areas A or D