



**KENTUCKY STATE
UNIVERSITY**

LIBERAL STUDIES STEM+ OPTION (WITH CONCENTRATIONS) ASSOCIATE DEGREE

STEM Option: Students must earn a total of sixty (60) thru sixty-four (64) credit hours of which HUM/IGS 200 is a requirement.

Code	Title	Hours
KSU 118	Intro. to University Learning	3
General Studies		
ENG 101	English Comp I	4
ENG 102	English Comp II	3
COM 103	Interpersonal Communication	3
Guided Humanities General Education Course		
Quantitative Reasoning		
MAT 115	College Algebra	3
Arts and Humanities		
Foreign Language I		
Foreign Language II		
Select one of the following:		
ART 130	Introduction to Art	
MUS 130	Introduction to Music	
THE 130	Introduction to Theatre	
ENG 211	Intro to Literature	
Social and Behavioral Science		
Select two of the following:		
POS 101	American Government	
FIN 101	Financial Literacy	
HIS 103	Western Civilization	
HIS 108	Intro to African American Hist (required for on campus students)	
HIS 201 & HIS 202	US History to 1865 and US History since 1865	
ECO 200	Survey of Economics (required for Business and pre-pharmacy)	
or ECO 201	Prin of Economics I	
PSY 200	General Psychology (preferred for health careers)	
SOC 203	Principles of Sociology (preferred for pre-med)	
Natural Sciences		
Select one of the following:		
BIO 101	Life Science	
BIO 111	Principles of Biology (required for AFE, Science majors)	

CHE 109	Chemistry in Context	
Sciences		
Select one of the following:		
BIO 101	Life Science	3-4
BIO 103	Environmental Biology	
CHE 101 & CHE 110	General Chemistry I and General Chem I Laboratory (required for AFE, Science majors)	
CHE 109	Chemistry in Context	
PHS 201	Physical Sciences I	
PHS 202	Physical Sci II	
PHS 211	Earth & Environmental Science	
PHS 221	Intro to Weather Studies	
PHS 231	Introduction to Astronomy	
PHY 130	Physic and Society	
STEM+ Core		
COS 107	Prob Solving, Logic & Design	3
MAT 200	Intro to Stat Reasoning & Ana.	4
KSU 186	Navigate. the Tech. World (required for on campus students)	3
or MSC 200	STEM+ Leadership Seminar	
Concentration		
Select a concentration		
		10-14
Total Hours		60-66

Concentration Electives

(Mathematics, Computer Science, Biology, Chemistry, Business, Agriculture)

Mathematics Concentration

(Mathematics, Math Education, Pre-Engineering)

Code	Title	Hours
MAT 120	Precalculus	4
MAT 131	Calculus/Analy Geom I	5
MAT 132	Calculus/Analy Geom II	5
Total Hours		14

Biostatistics Concentration

(5-year BS/MS – BS in Math from KSU and MS in Biostatistics from U of L)

Code	Title	Hours
MAT 120	Precalculus	4
MAT 131	Calculus/Analy Geom I	5
MAT 132	Calculus/Analy Geom II	5
Total Hours		14

Computer Science Concentration

(Computer Science, Information Technology)

Code	Title	Hours
MAT 120	Precalculus	4
MAT 131	Calculus/Analy Geom I	5
COS 108	Prin Computer Science I	4

COS 109	Prin Computer Sci II ¹	4
Total Hours		17

¹ An additional course may be needed to fulfill the minimum 60 credit hours required for an associate degree.

Science Concentration

(Chemistry, Biology, Biotechnology, General Biology, Pre-Health Professions)

Code	Title	Hours
MAT 120	Precalculus	4
MAT 131	Calculus/Analy Geom I	5
CHE 102 & CHE 120	General Chemistry II and General Chemistry II Lab	4
Total Hours		13

Business Concentration

(Accounting, General Business, Marketing, Management)

Code	Title	Hours
BUA 101	Computer Applic Business	3
ACC 201	Principles of Accounting I	3
BUA 204	Business Communication	3
ECO 202 or ACC 202	Prin of Economics II Principles of Accounting II	3
ECO 202 or ACC 202	Prin of Economics II ¹ Principles of Accounting II	3
Total Hours		15

¹ An additional course may be needed to fulfill the minimum 60 credit hours required for an associate degree.

Agriculture, Food Science and Sustainable Systems

(Concentrations)

Code	Title	Hours
AFE 116	Intro Agriculture/Food/Environ	2
AFE 117	Global Perspect Ag/Food/Env	3
AFE 211	Introduction to Animal Science	3
AFE 217	Plant Sci. & Horti. Principles	4
AFE XXX ¹		0-3
Total Hours		12-15

¹ An additional course may be needed to fulfill the minimum 60 credit hours required for an associate degree.