

# GENERAL EDUCATION REQUIREMENTS

Competencies will be met at the level appropriate to the credential.

A general education core curriculum will enable KCTCS colleges to graduate men and women who are intellectually flexible, articulate, reflective, creative, and prepared for continuous learning. For all students, this implies some understanding of the value of higher education and the world of work and career fields related to their own abilities, interests, and needs. The general education core competencies will enable students to develop their own values, pursue goals, and contribute to the political, moral, social, and cultural enrichment of society.

## General Education Competencies

Students should prepare for twenty-first century challenges by gaining:

- A. Knowledge of human cultures and the physical and natural worlds through study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts.
- B. Intellectual and practical skills, including
  - inquiry and analysis
  - critical and creative thinking
  - written and oral communication
  - quantitative literacy
  - information literacy
  - teamwork and problem solving
- C. Personal and social responsibility, including
  - civic knowledge and engagement (local and global)
  - intercultural knowledge and competence
  - ethical reasoning and action
  - foundations and skills for lifelong learning
- D. Integrative and applied learning, including synthesis and advanced accomplishment across general and specialized skills.

## Written Communication

Course	Title	Credits
<b>Diploma</b>		
TEC 200	Technical Communications	3
Any Writing course approved for the AAS, AA, or AS		
<b>AAS, AA, AS, AFA</b>		
ENG 101	Writing I	3
ENG 102	Writing II	3
ENG 105	Writing: An Accelerated Course	3

## Oral Communications

Course	Title	Credits
<b>Diploma, AAS, AA, AS, AFA</b>		
COM 181	Basic Public Speaking	3
COM 205	Business and Professional Communication	3
COM 252	Introduction to Interpersonal Communication	3
COM 281	Communication in Small Group	3
COM 287	Persuasive Speaking	3

## Quantitative Reasoning

Course	Title	Credits
<b>Diploma</b>		
Any mathematics course approved for the AAS, AA, AS, or AFA		
<b>AAS</b>		
MAT 105	Business Mathematics	3
MAT 110	Applied Mathematics	3
MAT 116	Technical Mathematics	3
MAT 126	Technical Algebra and Trigonometry	3
Any mathematics course listed below		
<b>AA, AS &amp; AFA</b>		
MAT 141	Liberal Arts Mathematics	3
MAT 146	Contemporary College Mathematics	3
MAT 150	College Algebra	3
MAT 151	Introduction to Applied Statistics	3
MAT 154	Trigonometry	2
MAT 155	Trigonometry	3
MAT 159	Analytic Geometry and Trigonometry	4
MAT 160	Precalculus	5
MAT 161	Statistics and Algebra	5
MAT 165	Finite Mathematics and its Applications	3
MAT 170	Brief Calculus with Applications	3
MAT 171	Precalculus	5
MAT 174	Calculus I	4
MAT 175	Calculus I	5
MAT 184	Calculus II	4
MAT 185	Calculus II	5
MAT 206	Mathematics For Elementary and Middle School Teachers II	3
MAT 261	Introduction to Number Theory	3
MAT 275	Calculus III	4
MAT 285	Differential Equations	3
PHI 250	Symbolic Logic	3
STA 151	Introduction to Applied Statistics	3
STA 210	Statistics: A Force in Human Judgement	3
STA 220	Statistics	3
STA 251	Applied Statistics	3

## Natural Sciences

Course	Title	Credits
<b>Diploma</b>		
PHX 150	Introductory Physics	3
Any Science course approved for the AAS, AA, AS, or AFA		
<b>AAS, AA, AFA, AS</b>		
ANA 209	Principles of Human Anatomy	3
ANT 230	Introduction to Biological Anthropology	3
ANT 231	Biological Anthropology Laboratory *	1
AST 101	Frontiers of Astronomy	3
AST/BIO 155	Astrobiology	3
AST 191	The Solar System	3
AST 192	Stars, Galaxies and the Universe	3
AST 195	Introductory Astronomy Laboratory *	1

BIO 112	Introduction to Biology	3
BIO 113	Introduction to Biology Lab *	1
BIO 114	Biology I	3
BIO 115	Biology Laboratory I *	1
BIO 116	Biology II	3
BIO 117	Biology Laboratory II *	1
BIO 118	Microbes and Society	3
BIO 120	Human Ecology	3
BIO 121	Human Ecology Laboratory *	1
BIO 122	Introduction to Conservation Biology	3
BIO 124	Principles of Ecology	3
BIO 130	Aspects of Human Biology	3
BIO 135	Basic Anatomy and Physiology with Laboratory *	4
BIO 137	Human Anatomy and Physiology I with Laboratory *	4
BIO 139	Human Anatomy and Physiology II with Laboratory *	4
BIO 140	Botany	3
BIO 141	Botany with Laboratory *	4
BIO 142	Zoology	3
BIO 143	Zoology with Laboratory *	4
BIO 144	Insect Biology	3
BIO 145	Insect Biology Laboratory *	1
BIO 150	Principles of Biology I	3
BIO 151	Principles of Biology Laboratory I *	2
BIO 152	Principles of Biology II	3
BIO 153	Principles of Biology Laboratory II *	2
BIO/AST 155	Astrobiology	3
BIO 209	Introductory Microbiology Laboratory *	2
BIO 220	The Genetic Perspective	3
BIO 225	Medical Microbiology with Laboratory *	4
BIO 226	Principles of Microbiology	3
BIO 227	Principles of Microbiology with Laboratory *	5
CHE 120	Chemistry in Society	3
CHE 125	Chemistry in Society Laboratory *	1
CHE 130	Introductory General and Biological Chemistry	3
CHE 135	Introductory General and Biological Chemistry Laboratory *	1
CHE 140	Introductory General Chemistry	3
CHE 145	Introductory General Chemistry Laboratory *	1
CHE 150	Introduction to Organic and Biological Chemistry	3
CHE 155	Introduction to Organic and Biological Chemistry Laboratory <sup>1</sup>	1
CHE 170	General College Chemistry I	4
CHE 175	General College Chemistry Laboratory I *	1
CHE 180	General College Chemistry II	4
CHE 185	General College Chemistry Laboratory II *	1
CHE 270	Organic Chemistry I	3
CHE 275	Organic Chemistry Laboratory I *	2
CHE 280	Organic Chemistry II	3
CHE 285	Organic Chemistry Laboratory II *	2
EST 140	Introduction to Ecology	3
EST 141	Introduction to Ecology Laboratory *	1

EST 150	Introductory Ecology *	4
EST 160	Hydrological Geology	3
EST 161	Hydrologic Geology Lab *	1
GEO 130	Earth's Physical Environment	3
GEO 131	Earth's Physical Environment Laboratory *	1
GEO 251	Weather and Climate	3
GEO 280	Environmental Science *	4
GLY 101	Physical Geology	3
GLY 102	Historical Geology	3
GLY 110	Environmental Geology	3
GLY 111	Physical Geology Laboratory *	1
GLY 112	Historical Geology Laboratory *	1
GLY 114	Environmental Geology Laboratory *	1
GLY 125	Geology of the National Parks and Monuments	3
GLY 130	Dinosaurs and Disasters: A Brief History of the Vertebrates	3
GLY 131	Dinosaur Laboratory *	1
GLY 140	Introduction to Oceanography	3
GLY 220	Principles of Physical Geology *	4
PHY 151	Introductory Physics I	3
PHY 152	Introductory Physics II	3
PHY 160	Physics and Astronomy for Elementary Teachers *	3
PHY 161	Introductory Physics I Laboratory *	1
PHY 162	Introductory Physics II Laboratory *	1
PHY 171	Applied Physics *	4
PHY 172	Physics for Health Sciences *	2
PHY 201	College Physics I	4
PHY 202	College Physics I Laboratory *	1
PHY 203	College Physics II	4
PHY 204	College Physics II Laboratory *	1
PHY 231	General University Physics I	4
PHY 232	General University Physics II	4
PHY 241	General University Physics I Laboratory *	1
PHY 242	General University Physics II Laboratory *	1
SCI 110	Science and Society	3
SCI 295	Scientific Investigations	3

\* Course satisfies the General Education requirement for a laboratory experience.

## Social and Behavioral Sciences

Course	Title	Credits
<b>Diploma</b>		
EFM 100	Personal Financial Management	3
WPP 200	Workplace Principles	3
Any Social Interaction course approved for the AAS, AA, AS, or AFA		
<b>AAS, AA, AS, AFA</b>		
AGR 101	The Economics of Food and Agriculture	3
ANT 101	Introduction to Anthropology	3
ANT/REL 130	Introduction to Comparative Religion <sup>1</sup>	3
ANT 160	Cultural Diversity in the Modern World	3
ANT 220	Introduction to Cultural Anthropology	3

ANT 221	Native People of North America	3	SOC 235	Inequality in Society	3
ANT 223	Culture Change and Globalization	3	SOC 249	Media, Society, and Culture	3
ANT 235	Food and Culture	3	SOC 250	Sociology of Popular Culture	3
ANT 240	Introduction to Archaeology	3	SOC 260	Population, Resources and Change	3
ANT 241	Origins of Old World Civilization	3	SPA 115	Hispanic Culture: (Country or Region)	3
ANT 242	Origins of New World Civilization	3	SUS 101	Introduction to Sustainability	3
COM 101	Introduction to Communications	3	SUS 102	Sustainable Built Environment	3
COM 249	Mass Media Communication	3	SUS 201	Sustainable Societies	3
COM 254	Introduction to Intercultural Communication	3	SUS 202	Sustainable Urban Systems	3
ECO 101	Contemporary Economic Issues	3	SWK 124	Introduction to Social Services	3
ECO 150	Introduction to Global Economics	3	SWK 275	The Family	3
ECO 201	Principles of Microeconomics	3	WGS 200	Introduction to Women's and Gender Studies in the Social Sciences	3
ECO 202	Principles of Macroeconomics	3			
FAM 252	Introduction to Family Science	3			
FAM 253	Human Sexuality: Development, Behavior, and Attitudes	3			
FLK 280	Cultural Diversity in the United States	3			
GEN 140	Development of Leadership	3			
GEN 225	Lifelong Learning Applications	3			
GEO 152	Regional Geography of the World	3			
GEO 160	Lands and Peoples of the Non-Western World	3			
GEO 172	Human Geography	3			
GEO 210	Pollution, Hazards, and Environmental Management	3			
GEO 222	Cities of the World	3			
GEO 240	Geography and Gender	3			
HUM 135	Introduction to Native American Literature <sup>2</sup>	3			
HUM 202	Survey of Appalachian Studies I <sup>2</sup>	3			
HUM 203	Survey of Appalachian Studies II <sup>2</sup>	3			
HUM 204	Appalachian Seminar <sup>2</sup>	3			
HUM 221	Contemporary Perspectives on Peace and War	3			
POL 101	American Government	3			
POL 210	Introduction to European Politics: East and West	3			
POL 212	Culture and Politics in Developing Nations	3			
POL 235	World Politics	3			
POL 255	State Government	3			
POL 280	Introduction to Public Policy	3			
PSY 110	General Psychology	3			
PSY 180	Human Relations	3			
PSY 185	Human Potential	3			
PSY 223	Lifespan Psychology	3			
PSY 230	Psychosocial Aspects of Death and Dying	3			
PSY 297	Psychology of Aging	3			
PSY 298	Essentials of Abnormal Psychology	3			
RAE 120	Introduction to Chinese Culture	3			
REL 101	Introduction to Religious Studies <sup>2</sup>	3			
REL 130	Introduction to Comparative Religion <sup>1</sup>	3			
SOC 101	Introduction to Sociology	3			
SOC 151	Social Interaction	3			
SOC 152	Modern Social Problems	3			
SOC 220	The Community	3			
SOC 230	Deviant Behavior	3			

<sup>1</sup> A student may not receive credit for both ANT 130 Introduction to Comparative Religion (3 credit hours) and REL 130 Introduction to Comparative Religion (3 credit hours).

<sup>2</sup> May be used to fulfill either Social and Behavioral Sciences or Arts & Humanities competency, but may not be used to fulfill both general education categories.

## Arts and Humanities

### Heritage

Course	Title	Credits
<b>Diploma, AAS, AA, AS, AFA</b>		
FLK 276	Introduction to Folk Studies	3
HIS 101	World Civilization I	3
HIS 102	World Civilization II	3
HIS 104	A History of Europe Through the Mid-Seventeenth Century	3
HIS 105	A History of Europe from the Mid-Seventeenth Century to the Present	3
HIS 106	Western Culture: Science and Technology I	3
HIS 107	Western Culture: Science and Technology II	3
HIS 108	History of the United States Through 1865	3
HIS 109	History of the United States Since 1865	3
HIS 120	The World at War, 1939-45	3
HIS 202	History of British People to the Restoration	3
HIS 203	History of the British People Since the Restoration	3
HIS 206	History of Colonial Latin America	3
HIS 207	History Modern Latin America, 1810 to Present	3
HIS 215	Historical Perspectives on Prisons and Police Work	3
HIS 220	Native American History: Pre-Contact to 1865	3
HIS 221	Native American History: 1865 to Present	3
HIS 240	History of Kentucky	3
HIS 247	History of Islam and Middle East Peoples, 500-1250 A.D.	3
HIS 248	History of Islam and Middle East Peoples, 1250 to the Present	3
HIS 254	History of Sub-Saharan Africa	3
HIS 260	African American History to 1865	3
HIS 261	African-American History 1865 - Present	3
HIS 265	History of Women in America	3

HIS 271	Medieval Europe	3
HIS 295	East Asia to 1800	3
HIS 296	History of Asia II	3

## Humanities

Course	Title	Credits
<b>Diploma, AAS, AA, AS, AFA</b>		
ANT/REL 130	Introduction to Comparative Religion <sup>1</sup>	3
ART 100	Introduction to Art	3
ART 104	Introduction to African Art	3
ART 105	Ancient Through Medieval Art History	3
ART 106	Renaissance Through Modern Art History	3
ART 108	Introduction to World Art	3
ART 109	Women in Art & Art History	3
ART 201	Ancient Art History	3
ART 202	Medieval Art History	3
ART 203	Renaissance Art History	3
ART 204	Modern Art History	3
ART 205	African American Art	3
ENG 135	Greek and Roman Mythology in Translation	3
ENG 161	Introduction to Literature	3
ENG 190	Introduction to Dystopian Literature and Film	3
ENG 221	Survey of English Literature I	3
ENG 222	Survey of English Literature II	3
ENG 230	Literature and Theme (subtitle required)	3
ENG 231	Literature and Genre (Subtitle required)	3
ENG 232	Literature and Place (Subtitle required)	3
ENG 233	Literature and Identities (Subtitle required)	3
ENG 234	Introduction to Women's Literature	3
ENG 251	Survey of American Literature I	3
ENG 252	Survey of American Literature II	3
ENG 261	Survey of Western Literature from the Greeks Through the Renaissance	3
ENG 262	Survey of Western Literature from 1660 to the Present	3
ENG 264	Major Black Writers	3
ENG 270	The Old Testament as Literature	3
ENG 271	The New Testament as Literature	3
ENG/HUM 281	Introduction to Film	3
ENG/HUM 282	International Film Studies	3
FLK 276	Introduction to Folk Studies	3
GEN 125	Applied Meta-Thinking	3
HNR 101	Intro to Contemporary Thought	3
HON 101	The Ancient World	3
HON 102	The Medieval and Renaissance World	3
HON 201	The Early and Modern World	3
HON 202	The Contemporary World	3
HRS 101	An Integrated Survey of Western Civilization I	3
HRS 102	An Integrated Survey of Western Civilization II	3
HRS 201	An Integrated Survey of Western Civilization III	3
HRS 202	An Integrated Survey of Western Civilization IV	3
HUM 120	Introduction to the Humanities	3
HUM 121	Peace Studies	3

HUM 135	Introduction to Native American Literature <sup>2</sup>	3
HUM 140	Introduction to Latino Literature	3
HUM 150	Introduction to African Literature	3
HUM 160	Introduction to Holocaust Literature and Film	3
HUM 202	Survey of Appalachian Studies I <sup>2</sup>	3
HUM 203	Survey of Appalachian Studies II <sup>2</sup>	3
HUM 204	Appalachian Seminar <sup>2</sup>	3
HUM 220	Historical Perspectives on Peace and War	3
HUM 230	Contemporary Japanese Literature and Culture in Translation	3
HUM 250	Appalachian Literature Survey	3
HUM 251	Contemporary Appalachian Literature	3
HUM/ENG 281	Introduction to Film	3
HUM/ENG 282	International Film Studies	3
MU 101	Folk and Traditional Music of the Western Continents	3
MUS 100	Introduction to Music	3
MUS 104	Introduction to Jazz History	3
MUS 206	American Music History	3
MUS 207	African American Music History	3
MUS 208	World Music	3
MUS 222	History and Sociology of Rock Music	3
PHI 100	Introduction to Philosophy: Knowledge and Reality	3
PHI 110	Medical Ethics	3
PHI 120	Introductory Logic	3
PHI 130	Ethics	3
PHI 140	The Ethics of War and Peace	3
PHI 150	Business Ethics	3
PHI 160	Philosophy Through Pop Culture	3
PHI 170	Philosophy of Religion	3
PHI 180	Animal and Environmental Ethics	3
PHI 200	Professional Responsibility	3
PHI 260	History of Philosophy I: From Greek Beginnings to the Middle Ages	3
PHI 270	History of Philosophy II: From the Renaissance to the Present Era	3
REL 101	Introduction to Religious Studies <sup>2</sup>	3
REL 120	Introduction to the Old Testament	3
REL 121	Introduction to the New Testament	3
REL/ANT 130	Introduction to Comparative Religion <sup>1</sup>	3
REL 150	Comparative Ethics of Major World Religions	3
REL 160	Religious Expressions of Forgiveness and Justice	3
REL 170	Philosophy of Religion	3
THA 101	Introduction to Theatre: Principles and Practice	3
THA 200	Introduction to Dramatic Literature	3
THA 283	American Theatre	3
WGS 201	Introduction to Women's and Gender Studies in the Arts and Humanities	3

<sup>1</sup> A student may not receive credit for both ANT 130 Introduction to Comparative Religion (3 credit hours) and REL 130 Introduction to Comparative Religion (3 credit hours).

<sup>2</sup> May be used to fulfill either Social and Behavioral Sciences or Arts & Humanities requirement, but may not be used to fulfill both general education categories.

## Course Transitions

A significant number of courses have changed prefixes and/or course numbers. This does not change the ability of the courses to fulfill general education course requirements as long as courses were eligible at the time of enrollment. Course changes for General Education courses are available in Appendices -E (through 2013-2014 academic year).