

# Environmental and Sustainability Studies - B.A. College of Arts and Sciences

The Environmental and Sustainability Studies B.A. degree educates students in a broad range of fundamental environmental studies subjects with concepts of sustainability integrated throughout the curriculum. The course work requirements consist of 18 credits of core courses and 24 credits of electives from courses organized in the Areas of Economics, Environment, and Society. In order to ensure depth of knowledge and expertise 15 credits of courses will be taken within one Area. To provide breadth of knowledge, six credits of courses will be taken in a second Area and three credits of courses in the third Area. The Areas were selected in recognition that any type of sustainable activity, resource, or product must balance economic, environmental, and social considerations. In the Environmental and Sustainability Studies program, students will combine the fundamental knowledge they obtain in the three Areas to develop an understanding of sustainability and how sustainable practices can be implemented in their eventual careers.

### 120 hours (minimum)

Any student earning a Bachelor of Arts (BA) degree must complete a minimum of 39 hours at the 300+ level. These hours are generally completed by the major requirements. However, keep this hour requirement in mind as you choose your course work for the requirements in the major. See the complete description of College requirements for a Bachelor of Arts degree on page 120.

#### UK Core Requirements

See the **UK Core** section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

<b>I. Intellectual Inquiry in Arts and Creativity</b>	
Choose one course from approved list .....	3
<b>II. Intellectual Inquiry in the Humanities</b>	
Choose one course from approved list .....	3
<b>III. Intellectual Inquiry in the Social Sciences</b>	
Recommended:	
ECO 101 Contemporary Economic Issues .....	3
<b>IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences</b>	
Choose one course from approved list .....	3
<b>V. Composition and Communication I</b>	
CIS/WRD 110 Composition and Communication I .....	3
<b>VI. Composition and Communication II</b>	
CIS/WRD 111 Composition and Communication II .....	3
<b>VII. Quantitative Foundations</b>	
Choose one course from approved list .....	3
<b>VIII. Statistical Inferential Reasoning</b>	
Choose one course from approved list .....	3
<b>IX. Community, Culture and Citizenship in the USA</b>	
Choose one course from approved list .....	3

<b>X. Global Dynamics</b>	
Choose one course from approved list .....	3
<b>UK Core hours:</b> .....	<b>30</b>

<b>Graduation Writing Requirement</b>	
WRD 425 Environmental Writing .....	3
<b>Graduation Writing Requirement hours:</b> .....	<b>3</b>

<b>College Requirements</b>	
I. Foreign Language ( <i>placement exam recommended</i> ) .....	0-14
II. Disciplinary Requirements	
a. Natural Science ( <i>completed by Major Requirements</i> )	
b. Social Science ( <i>completed by Major Requirements</i> )	
c. Humanities .....	6
III. Laboratory or Field Work .....	1
IV. Electives .....	6
<b>College Requirement hours:</b> .....	<b>13-27</b>

Required Core Courses	Hours
ENS 201 Environmental and Sustainability Studies I: Humanities and Social Sciences .....	3
ENS 202 Environmental and Sustainability Studies II: Natural Science and Policy .....	3
WRD 425 Environmental Writing .....	3
ENS 300 Special Topics (Subtitle required) .....	3
PHI 336 Environmental Ethics .....	3
ENS 400 Senior Seminar (Subtitle required) .....	3
<b>Required Core Courses hours:</b> .....	<b>18</b>

### AREAS OF EXPERTISE

Students must take **five** courses (15 credits) in one Area of Expertise, **two** in another Area (6 credits), and **one** in a third Area (3 credits)

#### Area 1 – Economics

A sustainable balance must be made between economic gain and protection of natural resources. Governments must determine policy and institute laws to provide the necessary protection of natural resources, and provide the guidelines for any development. This Area will provide the students with training in the interconnectedness of economics, policy and development. The students will have the freedom to select clusters of courses suited to their career goals. For example, students anticipating careers in business may select courses related to economics and those planning to go to Law School may focus on policy courses.

AEC 303 Microeconomic Concepts in Agricultural Economics .....	3
AEC 324 Agricultural Law .....	3
AEC 424 Principles of Environmental Law .....	3
AEC 445G Introduction to Resource and Environmental Economics .....	3
AEC/ECO 479 Public Economics .....	3

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# Environmental and Sustainability Studies (B.A.) • 2

AEC 483 Regional Economics	3
AEC 532 Agriculture and Food Policy	3
AEC/NRE 545 Resource and Environmental Economics	3
ANT 225 Culture, Environment and Global Issues	3
ANT 311 Global Dreams and Local Realities in a "Flat" World	3
ANT 322 Ancient Mexican Civilizations	3
ANT 338 Economic Anthropology	3
ANT 340 Development and Change in the Third World	3
ANT 375 Ecology and Social Practice	3
ANT 470G Regional American Ethnography	3
ANT 532 Anthropology of the State	3
ANT 543 Cultural Resource Management	3
*ECO 201 Principles of Economics I	3
ECO 202 Principles of Economics II	3
ECO 401 Intermediate Microeconomic Theory	3
ECO 410 Current Issues in Economics (Subtitle required)	3
ECO 473G Economic Development	3
ENS 395 Independent Work	3
FOR 280 Forest Policy	2
FOR 325 Economic Botany: Plants and Human Affairs	3
GEO 231 Environment and Development	3
GEO 235 Environmental Management and Policy	3
GEO 255 Geography of the Global Economy	3
GEO 260 Geographies of Development in the Global South	3
GEO 321 Land, People, and Development in Appalachia	3
GEO 442G Political Geography	3
GEO 455 Globalization and the Changing World Economy	3
GEO 550 Sustainable Resource Development and Environmental Management	3
NRE 301 Natural Resources and Environmental Science	3
NRE 381 Natural Resource and Environmental Policy Analysis	3
STA 291 Statistical Methods	3
STA 320 Introductory Probability	3

\*ECO 201 is required for Area 1.

## Area 2 – Environment

This area will build upon the fundamental natural science knowledge obtained in ENS 202 and the subjects taken to fulfill the A&S requirements. Students will be able to select from courses spanning a wide range of environmental subjects in order to focus on a subject of their specific interest. For example, this Area could be used to observe how societies have influenced the natural world from historic to modern times, the impact of development on ecology, and how climate change today compares to changes that occurred in the past.

ANT 240 Introduction to Archeology	3
ANT 241 Origins of Old World Civilization	3
ANT 242 Origins of New World Civilization	3
ANT 351 Special Topics in Archaeology (Subtitle required)	3
BIO 303 Introduction to Evolution	4
BIO 325 Ecology	4
BIO 375 Behavioral Ecology and Sociobiology	3
BIO 452G Laboratory in Ecology	2
CE 555 Microbial Aspects of Environmental Engineering	3
CHE 565 Environmental Chemistry	3
EGR 240 Global Energy Issues	3
ENG 401 Special Topics in Writing (Subtitle required)	3
ENS 395 Independent Work	3
FOR 219 Dendrology	4
FOR 230 Conservation Biology	3
FOR 240 Forestry and Natural Resource Ethics	2
GEO 231 Environment and Development	3
GEO 235 Environmental Management and Policy	3
GEO 322 Geography of Kentucky	3

GEO 331 Global Environmental Change	3
GEO 351 Physical Landscapes	3
GEO 431 Political Ecology	3
GEO/BIO 530 Biogeography and Conservation	3
GEO 531 Landscape Ecology	3
GEO 550 Sustainable Resource Development and Environmental Management	3
GLY 220 Principles of Physical Geology	4
GLY 341 Landforms	
or	
ANT 342 North American Archaeology	3
GLY 360 Mineralogy	4
GLY 385 Hydrology and Water Resources	3

## Area 3 – Society

This Area explores the way that human society interacts with the environment. "Coupled human-natural systems" are a primary driver of environmental change, and also a key source of solutions to environmental problems. This Area will build students' knowledge of the mutually influencing human-environment dynamic.

ANT 221 Native People of North America	3
ANT 225 Culture, Environment and Global Issues	3
ANT 245 Food Culture and Society	3
ANT 303 Topics in the Anthropology of Food and Nutrition (Subtitle required)	3
ANT 311 Global Dreams and Local Realities in a "Flat" World	3
ANT/AAS 326 People and Cultures of Sub-Saharan Africa	3
ANT 340 Development and Change in the Third World	3
ANT 342 North American Archaeology	3
ANT 375 Ecology and Social Practice	3
ANT 470G Regional American Ethnography	3
ANT 525 Applied Anthropology	3
ANT 545 Historical Archaeology	3
ANT 555 Eastern North American Archaeology	3
ARC 314 History and Theory III: 20th Century and Contemporary Architecture	3
ARC 315 World Architecture and Urbanism	3
ARC 325 Theories of Urban Form	3
ENS 300 Special Topics (Subtitle required)	3
ENS 395 Independent Work	3
GEO 231 Environment and Development	3
GEO 285 Introduction to Planning	3
GEO 321 Land, People, and Development in Appalachia	3
GEO 331 Global Environmental Change	3
GEO 431 Political Ecology	3
GEO 485G Urban Planning and Sustainability	3
HIS 240 History of Kentucky	3
LA 205 History of Landscape Architecture	3
PHI 361 Biology and Society	3
PS 391 Special Topics in Political Science (Subtitle required)	3
SAG 201 Cultural Perspectives on Sustainability	3
SOC 302 Sociological Research Methods	3
SOC/CLD 360 Environmental Sociology	3
SOC 363 Environmental Justice	3
SOC/CLD 380 Globalization: A Cross-Cultural Perspective	3
SOC/CLD 420 Sociology of Communities	3
SOC/CLD 517 Rural Sociology	3
SOC/ANT/CLD 534 Sociology of Appalachia	3

**Areas of Expertise hours:** 24

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## From Outside the Major Department

Choose hours outside Environmental and Sustainability Studies at the 300+ level. 200+ level courses used to satisfy College Requirements can also be counted here.

**Subtotal: Other Major hours:** ..... 6

## Electives

Electives should be selected to complete the 120 hours required for graduation.

**Subtotal: Electives** ..... **minimum of 6**

## Total Minimum Hours

**Required for Degree** ..... **120**