

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 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. The ENS B.A. is an ideal double major for other disciplinary degrees.

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 in the *Arts and Sciences* section of the 2023-2024 Undergraduate Catalog.

UK Core Requirements

See the *UK Core* section of the 2023-2024 Undergraduate Catalog 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.

I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list.....3

II. Intellectual Inquiry in the Humanities

Choose one course from approved list.....3

III. Intellectual Inquiry in the Social Sciences

Recommended:

ECO 101 Contemporary Economic Issues3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

Choose one course from approved list.....3

V. Composition and Communication I

CIS/WRD 110 Composition and Communication I3

VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II3

VII. Quantitative Foundations

Choose one course from approved list.....3

VIII. Statistical Inferential Reasoning

STA 296 Statistical Methods and Motivations.....3

IX. Community, Culture and Citizenship in the USA

Choose one course from approved list.....3

X. Global Dynamics

Choose one course from approved list.....3

UK Core hours: 30

Graduation Composition and Communication Requirement (GCCR)

ENS 400 Senior Seminar (Subtitle required).....3

Graduation Composition and Communication Requirement hours (GCCR)

..... 3

College Requirements

I. Foreign Language (*placement exam recommended*) 0-14

II. Disciplinary Requirements

a. Natural Science (*completed by Major Requirements*)

b. Social Science (*completed by Major Requirements*)

c. Humanities.....6

III. Laboratory or Field Work.....1

IV. Race and Ethnicity Requirement..... 0-3

V. Electives.....6

College Requirement hours: 13-30

Required Core Courses

Hours

ENS 201 Environmental and Sustainability Studies I:

Humanities and Social Sciences3

ENS 202 Environmental and Sustainability Studies II:

Natural Science and Policy3

ENS 300 Special Topics (Subtitle required)3

PHI 336 Environmental Ethics3

ENS 400 Senior Seminar (Subtitle required).....3

plus one course from the following:

ENG 425 Environmental Writing3

WRD 304 Writing in the Social Sciences3

WRD 305 Writing Public Science3

WRD 310 Writing in the Natural Sciences.....3

Required Core Courses hours: 18

AREAS OF EXPERTISE

Students are required to declare one primary area of expertise from one of the tracks below: Track #1 Economic, Track #2 Environment, Track #3 Society. Students are required to take at least 15 hours in their primary area, 6 hours in the second area, and 3 hours in the third area. Students cannot double dip courses across the three tracks. A course used to satisfy one track may not be used to count toward credits in another track.

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The University of Kentucky is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, masters, educational specialist, and doctorate degrees. The University of Kentucky also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of the University of Kentucky may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

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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.

Students who choose Economics as their primary track must take ECO 201 as part of their required 15 credit hours.

ECO 201 Principles of Economics I	3
AEC 302 Agricultural Management Principles	4
AEC 303 Microeconomic Concepts in Agricultural Economics	3
AEC 305 Food and Agricultural Marketing Principles	3
AEC 324 Agricultural Law	3
AEC 326 Principles of Environmental Law	3
AEC 445G Introduction to Resource and Environmental Economics	3
AEC/ECO 479 Public Economics	3
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 Anthropology of Globalization	3
ANT 322 Ancient Mexican Civilizations	3
ANT 338 Economic Anthropology	3
ECO 202 Principles of Economics II	3
ECO/MA 327 Strategic Decision Making: An Introduction to Game Theory	3
ECO 365 Social Economic Organization	3
ECO 370 The Global Economy	3
ECO 381 Environmental Economics	3
ECO 401 Intermediate Microeconomic Theory	3
ECO 410 Current Issues in Economics (Subtitle required)	3
ECO 450G The Economics of Poverty and Inequality	3
ECO 473G Economic Development	3
ENS 300 Special Topics (Subtitle required)	3
ENS 395 Independent Work	3
ENS 399 Internship in Environment and Sustainability	3
FOR 280 Forest Resource Policy and Law	3
FOR 325 Economic Botany: Plants and Human Affairs	3
GEO 255 Geography of the Global Economy	3
GEO 285 Introduction to Planning	3
GEO 309 Introduction to GIS	3
GEO 316 Environment and Development	3
GEO 365 Special Topics in Regional Geography (Subtitle required)	3
GEO 431 Political Ecology	3
GEO 442G Political Geography	3
GEO 455 Globalization and the Changing World Economy	3
NRE 201 Introduction to Natural Resources and Environmental Sciences	3
NRE 381 Natural Resource and Environmental Policy Analysis	3
STA 210 Statistics: A Force in Human Judgment	3
STA 296 Statistical Methods and Motivations	3
STA 320 Introductory Probability	3

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 230 Introduction to Biological Anthropology	3
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
ANT 353 Special Topics in Physica or Biological Anthropology (Subtitle required)	3
ANT 375 Ecology and Social Practice	3
BIO 303 Introduction to Evolution	4
BIO 310 The Life Processes of Plants	3
BIO 325 Ecology	4
BIO 375 Behavioral Ecology and Sociobiology	3
BIO/GEO 530 Biogeography and Conservation	3
CHE 565 Environmental Chemistry	3
CPH 310 Disease Detectives: Epidemiology in Action	3
CPH 320 Fundamentals of Environmental Health	3
CPH 365 Special Topics in Public Health (Subtitle required)	3
DHN 318 Hunger, Food Behavior, and the Environment	3
EES 220 Principles of Physical Geology	4
EES 341 Landforms	3
EES 345 Paleoclimatology: The Science	3
EES 360 Mineralogy	4
EES 385 Hydrology and Water Resources	3
EGR 240 Global Energy Issues	3
ENG/WRD 401 Special Topics in Writing (Subtitle required)	3
ENS 300 Special Topics (Subtitle required)	3
ENS 395 Independent Work	3
ENS 399 Internship in Environment and Sustainability	3
FOR 219 Dendrology	4
FOR 240 Forestry and Natural Resource Ethics	2
FOR 435 Conservation Biology	3
GEO 230 Severe Storms and Extreme Weather	3
GEO 235 Environmental Management and Policy	3
GEO 261 Global Dynamics of Health and Disease	3
GEO 305 Elements of Cartography	3
GEO 309 Introduction to GIS	3
GEO 331 Global Environmental Change	3
GEO 351 Physical Landscapes	3
GEO 362 Conserving Global Environments	3
GEO 365 Special Topics in Regional Geography (Subtitle required)	3
GEO 419 Introduction to Remote Sensing	3
GEO 531 Landscape Ecology	3
HIS 351 Topics in U.S. History Since 1789 (Subtitle required)	3
ID 362 Environmental Theory	3
NRE 365 Environmental Education	3
PHI 300 Special Topics in Philosophy (Subtitle required)	1-3
PLS 210 The Life Processes of Plants	3
PLS 366 Fundamentals of Soil Science	4
PLS/SAG 390 Agroecology	3

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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.

AAS/SOC 235 Inequalities in Society	3
AAS/ANT 326 Contemporary African Lives	3
AAS/GEO 328 Geography of the Middle East and North Africa.....	3
AAS 400 Special Topics in African-American and Africana Studies (Subtitle required)	3
AAS/PS 471 Race, Ethnicity and Politics.....	3
ANT 221 Native People of North America.....	3
ANT 245 Food Culture and Society	3
ANT 251 Global Health Inequalities	3
ANT 302 Ethnographic Methods: Doing Anthropology.....	3
ANT 303 Topics in the Anthropology of Food and Nutrition (Subtitle required)	3
ANT 324 Contemporary Latin American Cultures.....	3
ANT 330 North American Cultures	3
ANT 342 North American Archaeology	3
ANT 352 Special Topics in Cultural Anthropology (Subtitle required)	3
ANT 525 Applied Anthropology.....	3
ANT/CLD/SOC 534 Sociology of Appalachia.....	3
ANT 536 Global Appalachia.....	3
APP 200 Introduction to Appalachian Studies.....	3
ARC 314 History and Theory III: 20th Century and Contemporary Architecture	3
ARC 315 World Architecture and Urbanism	3
CLD/SOC 360 Environmental Sociology.....	3
CLD/SOC 380 Globalization: A Cross-Cultural Perspective	3
CLD/SOC 420 Sociology of Communities.....	3
CLD/SOC 517 Rural Sociology.....	3
CPH 201 Introduction to Public Health.....	3
ENG 339 Author Studies (Subtitle required).....	3
ENS 300 Special Topics (Subtitle required)	3
ENS 395 Independent Work.....	3
ENS 399 Internship in Environment and Sustainability	3
GEO 309 Introduction to GIS	3
GEO 323 Mexico: Environment, Politics and Society	3
GEO 361 GIS Applications for Health	3
GEO 365 Special Topics in Regional Geography (Subtitle required).....	3
GEO 372 Health Environment Futures.....	3
GEO 431 Political Ecology.....	3
GEO/FAM/GRN 585 Aging and Environment.....	3
GRN 250 Aging in Today’s World.....	3
GWS 250 Social Movements.....	3
GWS 350 Feminist Theory	3
GWS 430 Gender, Power and Violence	3
HIS 240 History of Kentucky	3
LA 205 History of Landscape Architecture	3
PHI 205 Food Ethics.....	3
PHI 332 Professional Ethics	3
PHI 335 The Individual and Society.....	3
PS 391 Special Topics in Political Science (Subtitle required)	3
SAG 310 Cultural Perspectives on Sustainability	3
SOC 302 Sociological Research Methods	3
SOC 303 Quantitative Social Analysis	3
SOC 350 Topics in Sociology (Subtitle required)	3
SOC 363 Environmental Justice	3
SW 325 Social Justice Foundations.....	3
WRD 410 Rhetoric and Popular Culture (Subtitle required)	3
Areas of Expertise hours:	24

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: Electivesminimum of **6**

Total Minimum Hours

Required for Degree **120**