

# B.S. in AGRICULTURE AND NATURAL RESOURCES

(32 credits required for graduation with a minimum cumulative GPA of 2.00)

**NOTE:** This guide is not meant to replace the degree audit; it is subject to change and represents actions approved by Faculty to date. Students are encouraged to run their degree audit at the end of each term of enrollment. Please refer often to the *2019-2020 Online Catalog & Student Handbook* <http://catalog.berea.edu/en/current/catalog/>, which will be updated with the most current information.

## GENERAL EDUCATION PROGRAM

*No single transfer course can meet more than one General Education requirement.*

### Core Courses

*(Development math courses may be waived on basis of test scores.)*

MAT 010 Pre-Algebra  
MAT 011 Elementary Algebra  
MAT 012 Elementary Algebra II

GSTR 110 Writing Seminar I: Critical Thinking in the Liberal Arts  
*(Transfer students may waive if College Composition was taken as a degree-seeking student at another college and earned a grade of B or higher.)*

GSTR 210 Writing Seminar II: Identity and Diversity in the U.S.

GSTR 310 Understandings of Christianity

GSTR 410 Seminar-Contemporary Global Issues

### Scientific Knowledge and Inquiry

GSTR 332 Scientific Origins **OR**

Two (2) approved science courses, from two different disciplines, one of which must be an approved lab course. The following courses have been approved to meet this requirement: ANR 110, BIO 100, 101, 110, CHM 113, 131, PHY 111, 127, 221

### Wellness & Fitness

WELL 101 Principles of Wellness I

WELL 102 Principles of Wellness II

Two (2) ¼-credit HHP activity courses (*HHP 200 will satisfy both the SWIM requirement and one of the activity course requirements*)

### Practical Reasoning (PR & PRQ)

Two (2) courses, at least one firmly grounded in math or statistics (PRQ); the other can be an approved practical reasoning (PR) course or another PRQ course.

### Perspectives (Six areas required)

One (1) course in **each** of the six areas is required. Individual courses may be approved to satisfy more than one perspective, but no single course may satisfy more than two perspective areas.

- 1) Arts
- 2) Social Science
- 3) Western History
- 4) Religion
- 5) African American/Appalachian/Women
- 6) International (choose one option):
  - A) Two (2) courses in the same non-English language, one of which may be waived through testing; **OR**
  - B) Two (2) world culture courses, one of which must be grounded in a non-western culture

### Active Learning Experience

An approved experience, taken for credit or non-credit (e.g. internships, undergraduate research experiences).

## MAJOR COURSES

*A minimum GPA of 2.0 in the major is required for graduation.*

### Core Courses

*(ANR 110 and 130 should be completed by end of first year)*

ANR 100 Intro to Agriculture & Natural Resources

ANR 110 Animal Science

ANR 130 Plant Science

ANR 240 Soil Science

ANR 375 Farm Resource Management

### Capstone Course

ANR 492 Senior Seminar

### Distribution Courses (Choose one of the following two options)

#### Labor/Field Learning Experience Option

ANR 494 Labor/Field Learning Exp. (non-credit) **AND**

Five (5) ANR course credits, three at the 300-level or above

**OR**

ANR 494 Labor/Field Learning Experience **AND**

Four (4) ANR course credits, three at the 300-level or above

**AND**

One (1) additional credit chosen from:

BIO 222 Microbiology

BIO 332 Mammalogy

BIO 342 Field Botany

BIO 344 Dendrology & Forest Ecology

BUS 363 Marketing

CHM 221 Organic Chemistry

ECO 250 Applied Statistics

ECO 347 International Trade & Policy

SENS 310 Ecology

SENS 320 Intro to GIS

#### Internship Option

ANR 395/495 Internship (for credit) **AND**

Four (4) ANR course credits, three at the 300-level or above

**OR**

ANR 394/495 Internship **AND**

Three (3) ANR course credits at the 300-level or above **AND**

One (1) additional credit chosen from:

BIO 222 Microbiology

BIO 332 Mammalogy

BIO 342 Field Botany

BIO 344 Dendrology & Forest Ecology

BUS 363 Marketing

CHM 221 Organic Chemistry

ECO 250 Applied Statistics

ECO 347 International Trade & Policy

SENS 310 Ecology

SENS 320 Intro to GIS

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**Collateral Courses (count outside the major)**

(MAT 115 should be completed by end of first year. CHM course and ECO 102 should be completed by end of sophomore year.)

CHM 131 Accelerated General Chemistry **OR**

CHM 134 Accelerated Environmental Chemistry

BUS 120 Accounting I **OR**

ECO 102 Principles of Microeconomics

MAT 115 College Algebra with Modeling

SENS 100 Intro to Sustainability & Environmental Studies **OR**

SENS 310 Ecology

**ELECTIVES**

Twenty (20) credits outside the major

***Learning Goal 1: Develop Knowledge Base in Agriculture and Natural Resources***

Learning Outcome 1.1: Know and understand scientific facts and principles pertaining to soils, plants, animals, economics, and ecology.

Learning Outcome 1.2: Have the ability to apply those facts and principles to the management of agriculture and natural resources systems.

Learning Outcome 1.3: Understand agriculture and natural resources within the broader societal contexts of culture, ecology, economics, politics, and history, as well as from different perspectives.

***Learning Goal 2: Analyze, Study, and Research in Agriculture and Natural Resources***

Learning Outcome 2.1: Be capable of studying and analyzing agricultural and natural-resource production systems to address problems or questions using appropriate scientific methods of planning, data collection, quantitative analysis, and, presentation.

Learning Outcome 2.2: Be conversant in a broad range of subject matters including plant science, animal science, soil science, and farm resource management.

Learning Outcome 2.3: Be able to locate, interpret, critically evaluate, synthesize, and present information through writing

Learning Outcome 2.4: Be able to locate, interpret, critically evaluate, synthesize, and present information through speech

***Learning Goal 3: Apply Skills and Knowledge in Agriculture and Natural Resources***

Learning Outcome 3.1: Be able to apply appropriate technology for managing farms.

Learning Outcome 3.2: Be able to apply appropriate technology for managing other natural-resources systems.

Learning Outcome 3.3: Examine and prepare for career opportunities in agriculture and natural resources, including graduate education.