

# 2022-2023 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 often. Please refer to the 2022-2023 *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 I  
ECO 250 Applied Statistics  
ECO 347 International Trade & Policy  
SENS 310 Ecology  
SENS/GEO 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 I  
ECO 250 Applied Statistics  
ECO 347 International Trade & Policy  
SENS 310 Ecology  
SENS/GEO 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.