

## Academic Map: Environmental Science, Biology

**Department:** Biology **Degree:** BS  
**Program/Major:** Environmental Science  
**Track/Emphasis:** Biology  
**Does this program require a minor? (Yes/No)** No

### Important program information in the online *Undergraduate Bulletin*:

**UCA Core Requirements:** <http://uca.edu/ubulletin2015/general-policies-information/uca-core/>  
**LD Core Check Sheet:** <http://uca.edu/ubulletin/ldcore/>  
**Degree Requirements:** <http://uca.edu/ubulletin2015/general-policies-information/degree-requirements/>  
**Program Description:** <http://uca.edu/ubulletin2015/colleges-departments-programs/interdisciplinary-programs/environmental-science/>  
**Course Descriptions:** <http://uca.edu/ubulletin2015/courses/>

This degree program requires a total of **120** semester credit hours, including at least **40** upper-division credit hours.

Comparable courses in the Arkansas Course Transfer System (ACTS) are cross-referenced in the ACTS column of each semester block below; a [core link](http://uca.edu/ubulletin/ldcore/) (http://uca.edu/ubulletin/ldcore/) takes the user to the *Undergraduate Bulletin's* UCA Lower-Division Core check sheet, where UCA Core options and ACTS course numbers are listed in full; an [acts link](http://uca.edu/ubulletin/arkansas-course-transfer-system/) takes the user to the *Undergraduate Bulletin's* ACTS page (http://uca.edu/ubulletin/arkansas-course-transfer-system/) for additional information and a UCA-ACTS crosswalk.

### Year 1

#### Fall – Semester 1 (credit hours: 14)<sup>1</sup>

| SUBJ | NUM  | TITLE  | SCH    | ACTS                      |
|------|------|--|--------|---------------------------|
| BIOL | 1440 | Principles of Biology I  | 4      | <a href="#">BIOL1014</a>  |
| CHEM | 1450 | College Chemistry I  | 4      | <a href="#">CHEM1414</a>  |
|      |      | Statistics Requirement <sup>2</sup> or<br>LD UCA Core Requirement <sup>3</sup> | 3<br>3 | <a href="#">core link</a> |
| WRTG | 1310 | Introduction to College Writing  | 3      | <a href="#">ENGL1013</a>  |

#### Spring – Semester 2 (credit hours: 18)

| SUBJ         | NUM          | TITLE  | SCH    | ACTS  |
|--------------|--------------|--|--------|---|
| BIOL         | 1441         | Principles of Biology II   | 4      |   |
| CHEM         | 1451         | College Chemistry II   | 4      | <a href="#">CHEM1424</a>  |
| WRTG<br>ENGL | 1320<br>1320 | Academic Writing and Research or<br>Interdisciplinary Writing and Research or<br>Other approved alternative (LD UCA Core: Research/Writing) <sup>3</sup> | 3      | <a href="#">ENGL1023</a><br><a href="#">ENGL1023</a><br><a href="#">core link</a> |
| GEOG         | 1400         | Earth Systems Science  | 4      | <a href="#">GEOG2223</a>  |
|              |              | Statistics Requirement <sup>2</sup> or<br>LD UCA Core Requirement <sup>3</sup>   | 3<br>3 | <a href="#">core link</a>   |

**Year 2****Fall – Semester 3 (credit hours: 15)**

| SUBJ | NUM          | TITLE   | SCH    | ACTS     |
|------|--------------|---|--------|----------|
| BIOL | 2490         | Genetics  | 4      |          |
| CHEM | 2401         | Organic Chemistry I   | 4      |          |
| MATH | 1491<br>1496 | Applied Calculus for Life Sciences <sup>4</sup> or<br>Calculus I <sup>4</sup> | 4<br>4 | MATH2405 |
| GEOG | 3301         | Conservation of Natural Resources   | 3      |          |

**Spring – Semester 4 (credit hours: 14)<sup>1</sup>**

| SUBJ | NUM  | TITLE                                | SCH | ACTS                      |
|------|------|--------------------------------------|-----|---------------------------|
| BIOL | 3403 | General Ecology (UD UCA Core: I)     | 4   |                           |
| BIOL |      | Taxonomic Elective <sup>5,6</sup>    | 4   |                           |
| PSCI | 1330 | US Government and Politics           | 3   |                           |
|      |      | LD UCA Core Requirement <sup>3</sup> | 3   | <a href="#">core link</a> |

**Year 3****Fall – Semester 5 (credit hours: 15)**

| SUBJ | NUM | TITLE                                | SCH | ACTS                      |
|------|-----|--------------------------------------|-----|---------------------------|
| BIOL |     | Taxonomic Elective <sup>5,6</sup>    | 4   |                           |
| BIOL |     | Theory Elective <sup>6</sup>         | 4   |                           |
| BIOL |     | Biology Track Elective <sup>6</sup>  | 4   |                           |
|      |     | LD UCA Core Requirement <sup>3</sup> | 3   | <a href="#">core link</a> |

**Spring – Semester 6 (credit hours: 17)**

| SUBJ | NUM  | TITLE   | SCH | ACTS                      |
|------|------|---|-----|---------------------------|
| ENVR | 3410 | Environmental Theory and Application (UD UCA Core: D, C)    | 4   |                           |
| BIOL |      | Theory Elective <sup>6</sup>                                | 4   |                           |
|      |      | Biology Track Elective <sup>6</sup>                         | 3   |                           |
|      |      | LD UCA Core Requirement <sup>3</sup>                        | 3   | <a href="#">core link</a> |
|      |      | LD UCA Core Requirement <sup>3</sup> or<br>General Elective | 3   | <a href="#">core link</a> |

**Year 4****Fall – Semester 7 (Credit hours: 14)**

| SUBJ | NUM  | TITLE  | SCH | ACTS                      |
|------|------|--|-----|---------------------------|
| ENVR | 4410 | Environmental Practicum (UD UCA Core: Z)         | 4   |                           |
|      |      | Biology Track Elective <sup>6</sup>              | 4   |                           |
| PSCI | 3320 | Environmental Policy and Regulation              | 3   |                           |
|      |      | LD UCA Core Requirement <sup>3</sup> (if needed) | 3   | <a href="#">core link</a> |

**Spring – Semester 8 (Credit hours: 13)**

| SUBJ | NUM | TITLE                               | SCH | ACTS |
|------|-----|-------------------------------------|-----|------|
|      |     | Biology Track Elective <sup>6</sup> | 4   |      |
|      |     | UD Core Requirement <sup>7</sup>    | 3   |      |
|      |     | UD Core Requirement <sup>7</sup>    | 3   |      |
|      |     | General Elective                    | 3   |      |

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 SIGNED – DEPARTMENT CHAIR

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 DATE

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 SIGNED – COLLEGE DEAN

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 DATE

**To be completed by the advisor when an Eight-Semester plan is accepted by the student:**

**If applicable, has student selected a minor? Type “x” as appropriate. \_\_\_\_\_ No \_\_\_\_\_ Yes**

**If “yes,” specify: \_\_\_\_\_**

### Notes

<sup>1</sup> If 15 semester hours are needed to comply with a scholarship(s), it is the student’s responsibility to add 1-3 hour(s) of a general elective course or LD UCA Core course to the semester.

<sup>2</sup> Student may choose one of the following courses to satisfy the statistics requirement: MATH 2311 (Statistical Methods), PSCI 2312 (Statistical Methods Political Analysis), PSYC 2330 (Psychological Statistics), or SOC 2321 (Social Statistics). Student should take Statistics course prior to completing 30 semester hours. MATH 1390 or equivalent is required to enroll in MATH 2311.

<sup>3</sup> See appropriate choices, alternatives, or substitutions under "UCA Core" in the Undergraduate Bulletin. During the first year, a student must complete a UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living. An approved UCA Core lab science and an approved UCA Core math course should be taken in the first two years if possible. The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core. See annotations in this Academic Map for courses within the major that fulfill these upper-division requirements; consult the *Undergraduate Bulletin* and your academic advisor to select appropriate courses to fulfill the remaining upper-division Responsible Living (R) requirement.

<sup>4</sup> MATH 1390 or equivalent is required to enroll in MATH 1491. A “C” or better in MATH 1390 and a “C” or better in MATH 1392, or a “C” or better in MATH 1580, or equivalent is required to enroll in MATH 1496.

<sup>5</sup> These courses cannot be from the same taxonomic grouping (vertebrate, invertebrate, plant).

<sup>6</sup> This degree requires 31 hours of Biology elective courses, including taxonomic, theory, and track electives. The AMAP is designed with the minimum number of courses required to meet degree requirements. However, students may elect to take Biology elective courses that are not lab classes. The student must take a **minimum** of 4 Biology elective lab courses (16 credit hours). The remaining 15 hours of Biology elective courses may be any approved Biology elective course. See appropriate choices under the "Environment Science" Interdisciplinary Program in the *Undergraduate Bulletin*.

<sup>7</sup> If students combine the UD UCA Core Diversity (D) and Responsible Living (R) requirement into one course or if Biology elective courses are used in place of the UD UCA Core Capstone requirements, these courses must be replaced with general electives in order to meet the minimum 120-credit hours required for graduation.