

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: <https://uca.edu/ubulletin/general-policies-information/uca-core/>
LD UCA Core Check Sheet: <https://uca.edu/academicbulletins/ld-uca-core/>
UD UCA Core Course List: <https://uca.edu/academicbulletins/ud-uca-core/>
Degree Requirements: <https://uca.edu/ubulletin/general-policies-information/degree-requirements/>
Program Description: <https://uca.edu/ubulletin/programs-by-program/interdisciplinary/environmental-science/>
Course Descriptions: <https://uca.edu/ubulletin/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](https://uca.edu/academicbulletins/ld-uca-core/) (https://uca.edu/academicbulletins/ld-uca-core/) 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](https://uca.edu/academicbulletins/acts/) takes the user to the *Undergraduate Bulletin's* ACTS page (https://uca.edu/academicbulletins/acts/) for additional information and a UCA-ACTS crosswalk.

Scholarship recipients: Please be aware of eligibility criteria for your scholarship(s). In particular, pay attention to (1) the enrollment requirements each semester for disbursement of your scholarship(s) and (2) the number of hours and GPA required each semester and/or year for renewal of your scholarship(s). Some Academic Maps may suggest enrollment in fewer hours than required for disbursement of your scholarship(s). In such cases, work with your academic advisor to adjust your schedule to meet requirements most efficiently. Contact the Office of Student Financial Aid at (501) 450-3140 with any questions regarding enrollment/renewal requirements of your scholarship(s). For online information resources, see endnote ¹.

Year 1

Fall – Semester 1 (credit hours: 14)²

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	1440	Principles of Biology I	4	BIOL1014
CHEM	1450	College Chemistry I	4	CHEM1414
		Statistics Requirement ³ or LD UCA Core Requirement ⁴	3	core link
WRTG	1310	Introduction to College Writing	3	ENGL1013

Spring – Semester 2 (credit hours: 18)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	1441	Principles of Biology II	4	
CHEM	1451	College Chemistry II	4	CHEM1424
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (LD UCA Core: Research/Writing) ⁴	3	ENGL1023 ENGL1023 core link
GEOG	1400	Earth Systems Science	4	PHSC1104

SUBJ	NUM	TITLE	SCH	ACTS
		Statistics Requirement ³ or LD UCA Core Requirement ⁴	3 3	core link

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 1496	Applied Calculus for Life Sciences ⁵ or Calculus I ⁴	4	MATH2405
GEOG	3301	Conservation of Natural Resources	3	

Spring – Semester 4 (credit hours: 14)²

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	3403	General Ecology (UD UCA Core: I)	4	
BIOL		Taxonomic Elective ^{6, 7}	4	
PSCI	1330	US Government and Politics	3	
		LD UCA Core Requirement ⁴	3	core link

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

SUBJ	NUM	TITLE	SCH	ACTS
ENVR	3410	Environmental Theory and Application (UD UCA Core: D, C)	4	
BIOL		Theory Elective ⁷	4	
BIOL		Biology Track Elective ⁷	4	
		LD UCA Core Requirement ⁴	3	core link

Spring – Semester 6 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Taxonomic Elective ^{6, 7}	4	
BIOL		Theory Elective ⁷	4	
		Biology Track Elective ⁷	3	
		LD UCA Core Requirement ⁴	3	core link
		LD UCA Core Requirement ⁴ or General Elective	3	core link

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

SUBJ	NUM	TITLE	SCH	ACTS
ENVR	4410	Biology Track Elective or Environmental Practicum (UD UCA Core: Z)	4	
		Biology Track Elective ⁷	4	

SUBJ	NUM	TITLE	SCH	ACTS
PSCI	3320	Environmental Policy and Regulation	3	
		LD UCA Core Requirement ⁴ (if needed)	3	core link

Spring – Semester 8 (Credit hours: 13)

SUBJ	NUM	TITLE	SCH	ACTS
ENVR	4410	Environmental Practicum (UD UCA Core: Z) or Biology Track Elective ⁷	4	
		UD Core Requirement ⁸ (UD UCA Core: R)	3	
		UD Core Requirement ⁸	3	
		General Elective	3	

SIGNED – DEPARTMENT CHAIR

DATE

SIGNED – COLLEGE DEAN

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

¹ See online information resources for UCA scholarships at <https://uca.edu/scholarships/> and for state scholarships at <https://scholarships.adhe.edu/scholarships-and-programs/a-z/>.

² 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.

³ Student may choose one of the following courses to satisfy the statistics requirement: GEOG 2330 (Quantitative Methods), MATH 2311 (Statistical Methods), PSCI 2312 (Statistical Methods Political Analysis), PSYC 2330 (Psychological Statistics), QMTH 2330 (Business 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.

⁴ 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.

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.

⁵ 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.

⁶ These courses cannot be from the same taxonomic grouping (vertebrate, invertebrate, plant).

⁷ 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

Notes – *continued*

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*.

⁸ 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.