

Academic Map: Biology

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

Important program information in the online *Undergraduate Bulletin*:

UCA Core Requirements: <http://uca.edu/ubulletin/general-policies-information/uca-core/>
LD UCA Core Check Sheet: <http://uca.edu/academicbulletins/ld-uca-core/>
UD UCA Core Course List: <http://uca.edu/academicbulletins/ud-uca-core/>
Degree Requirements: <http://uca.edu/ubulletin/general-policies-information/degree-requirements/>
Program Description: <http://uca.edu/ubulletin/colleges-departments-programs/college-of-natural-sciences-and-mathematics/department-of-biology/>
Course Descriptions: <http://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](http://uca.edu/academicbulletins/ld-uca-core/) (<http://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](#) takes the user to the *Undergraduate Bulletin*'s ACTS page (<http://uca.edu/academicbulletins/acts/>) for additional information and a UCA-ACTS crosswalk.

Year 1

Fall – Semester 1 (credit hours: 14)¹

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	1440	Principles of Biology I	4	BIOL1014
CHEM	1450	College Chemistry I	4	CHEM1414
MATH	2311	Elementary Statistics ² or LD UCA Core Requirement ³	3 3	MATH2103 core link
WRTG	1310	Introduction to College Writing	3	ENGL1013

Spring – Semester 2 (credit hours: 17)

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) ³	3	ENGL1023 ENGL1023 core link
MATH	2311	Statistical Methods I ² or LD UCA Core Requirement ³	3 3	MATH2103 core link
		LD UCA Core Requirement 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 ² or Calculus I ²	4 4	MATH2405
		LD UCA Core Requirement ³	3	core link

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	3402 3403	Cell Biology (UD UCA Core: I, C) or General Ecology (UD UCA Core: I, C)	4	
CHEM	3411	Organic Chemistry II	4	
		LD UCA Core Requirement ³	3	core link
		LD UCA Core Requirement ³	3	core link
		General Elective	2	

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

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	3402 3403	Cell Biology (UD UCA Core: I, C) or General Ecology (UD UCA Core: I, C)	4	
PHYS	1410	College Physics 1	4	PHYS2014
BIOL		Biology Lab Elective ⁴	4	
		LD UCA Core Requirement ³	3	core link

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Biology Lab Elective ⁴	4	
BIOL		Biology Lab Elective ⁴	4	
PHYS	1420	College Physics 2	4	PHYS2024
		LD UCA Core Requirement ³	3	core link

Year 4**Fall – Semester 7 (Credit hours: 14)¹**

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Biology Lab Elective ⁴	4	
BIOL		Biology Lab Elective ⁴	4	
		UD UCA Core Requirement ⁵ (UD UCA Core: R)	3	
		UD UCA Core or Capstone ⁵	3	

Spring – Semester 8 (Credit hours: 14)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Biology Lab Elective ⁴	4	
BIOL		Biology Lab Elective ⁴	4	
		UD UCA Core or Capstone ⁵ (UD UCA Core: Z)	3	
		UD UCA Core Requirement ⁵ (UD UCA Core: D)	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 If 15 semester hours are needed to comply with a scholarship, it is the student’s responsibility to add 1-3 hour(s) of a general elective course or UCA Lower Division Core course to the semester.

² MATH 1390 or equivalent is required to enroll in MATH 1491 or MATH 2311. 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. Student should take MATH 2311 Statistical Methods prior to completing 30 semester hours.

³ 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 notations in this Academic Map and the [Department of Biology](#) page in the *Undergraduate Bulletin* for courses in the major that fulfill these requirements.

⁴ This degree requires 28 hours of Biology Elective courses. The plan 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 12 hours of Biology elective courses may be any approved Biology elective course. See appropriate choices under the [Department of Biology](#) in the *Undergraduate Bulletin*.

⁵ 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 or Capstone requirements, these courses must be replaced with general electives in order to meet the minimum 120 credit hours required for graduation.