Academic Map: General Science, Option A

Department: Physics and Astronomy **Degree:** BS
Program/Major: General Science
Track/Emphasis: Option A
Does this program require a minor? (Yes/No) Yes

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/colleges-departments-programs/interdisciplinary-programs/general-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/) 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 (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)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1450	College Chemistry I	4	CHEM1414
BIOL	1440	Principles of Biology I	4	BIOL1014
		LD UCA Core Course[2]	3	core link
WRTG	1310	Introduction to College Writing	3	ENGL1013

Spring – Semester 2 (credit hours: 14)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	CHEM1424
BIOL	1441	Principles of Biology II	4	
		LD UCA Core Course[2]	3	core link
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (UD UCA Core: Research/Writing)[2]	3	ENGL1023 ENGL1023 core link

Year 2

Fall – Semester 3 (credit hours: 17/18)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401 3520	Organic Chemistry I or Quantitative Analysis	4 5	
MATH	1491 1496	Applied Calculus for the Life Sciences Calculus I	4	MATH2405
		LD UCA Core Course[2]	3	core link
		LD UCA Core Course[2]	3	core link
		LD UCA Core Course[2]	3	core link

Spring – Semester 4 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1410 1441	College Physics 1 or University Physics 1	4	PHYS2014 PHYS2034
BIOL	2490	Genetics	4	
		Minor Elective[3, 4]	3	
		General Elective[4]	3	core link
		General Elective[4]	1	core link

Year 3

Fall – Semester 5 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1420 1442	College Physics 2 or University Physics 2	4	PHYS2024 PHYS2044
		Minor Elective[3, 4]	3	
		Minor Elective[3, 4]	3	
		UD UCA Core[2] / General Elective[4]	3	
		UD UCA Core[2] / General Elective[4]	3	

Spring – Semester 6 (credit hours: 14/15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	2430 2443	College Physics 3 or University Physics 3	4	
CHEM		Chemistry Elective, upper-division	4	
		Minor Elective[3, 4]	3	
		Minor Elective[3, 4]	3	
		General Elective Course[4]	0–1	

Year 4

Fall – Semester 7 (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Biology Elective, upper-division	4	
		Minor Elective[3, 4]	3	

SUBJ	NUM	TITLE	SCH	ACTS
		Minor Elective[3, 4]	3	
		LD UCA Core Course[2]	3	core link
		LD UCA Core Course[2]	3	core link

Spring – Semester 8 (Credit hours: 13)

SUBJ	NUM	TITLE	SCH	ACTS
BIOL CHEM		Biology Elective, upper-division, or Chemistry Elective, upper-division	4	
		UD UCA Core,[2] General Elective Course[4]	3	
		UD UCA Core,[2] General Elective Course[4]	3	
		UD UCA Core,[2] Minor Elective[3, 4]	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] See appropriate choices, alternatives, or substitutions under "UCA Core" in the *Undergraduate Bulletin.* Prior to completion of 30 semester hours, 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 the *Undergraduate Bulletin* and consult your academic advisor for appropriate courses with which to fulfill these upper-division requirements.

[3] This Academic Map includes 24 credit hours in the Minor field of study. Minor requirements range from 15 to 31 credit hours. Depending on the minor selected, the student will need to adjust the number of general elective and minor elective credit hours in this plan. Due to an overlap of programs, the minor cannot be in Biology, Chemistry, Physics, or Physical Science.

[4] Major Elective, Minor Elective, and General Elective courses must be completed so that a minimum of 40 hours of credit are earned at the 3000 level or above.