

## 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:** <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/general-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: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1450	College Chemistry I	4	<a href="#">CHEM1414</a>
BIOL	1440	Principles of Biology I	4	<a href="#">BIOL1014</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
WRTG	1310	Introduction to College Writing	3	<a href="#">ENGL1013</a>

#### Spring – Semester 2 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	<a href="#">CHEM1424</a>
BIOL	1441	Principles of Biology II	4	
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (UD UCA Core: Research/Writing) <sup>1</sup>	3	<a href="#">ENGL1023</a> <a href="#">ENGL1023</a> <a href="#">core link</a>

**Year 2****Fall – Semester 3 (credit hours: 17/18)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401	Organic Chemistry I	4	
	3520	Quantitative Analysis	5	
MATH	1491	Applied Calculus for the Life Sciences	4	MATH2405
	1496	Calculus I		
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>

**Spring – Semester 4 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1410	College Physics 1 or	4	PHYS2014 PHYS2034
	1441	University Physics 1		
BIOL	2490	Genetics	4	
		Minor Elective <sup>2, 3</sup>	3	
		General Elective <sup>3</sup>	3	<a href="#">core link</a>
		General Elective <sup>3</sup>	1	<a href="#">core link</a>

**Year 3****Fall – Semester 5 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1420	College Physics 2 or	4	PHYS2024 PHYS2044
	1442	University Physics 2		
		Minor Elective <sup>2, 3</sup>	3	
		Minor Elective <sup>2, 3</sup>	3	
		UD UCA Core, <sup>1</sup> General Elective <sup>3</sup>	3	
		UD UCA Core, <sup>1</sup> General Elective <sup>3</sup>	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	2430	College Physics 3 or	4	
	2443	University Physics 3		
CHEM		Chemistry Elective, upper-division	4	
		Minor Elective <sup>2, 3</sup>	3	
		Minor Elective <sup>2, 3</sup>	3	
		General Elective Course <sup>3</sup>	0–1	

**Year 4****Fall – Semester 7 (Credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
BIOL		Biology Elective, upper-division	4	
		Minor Elective <sup>2, 3</sup>	3	

SUBJ	NUM	TITLE	SCH	ACTS
		Minor Elective <sup>2,3</sup>	3	
		UD UCA Core, <sup>1</sup> General Elective Course <sup>3</sup>	3	
		UD UCA Core, <sup>1</sup> General Elective Course <sup>3</sup>	3	

**Spring – Semester 8 (Credit hours: 7)**

SUBJ	NUM	TITLE	SCH	ACTS
BIOL CHEM		Biology Elective, upper-division, or Chemistry Elective, upper-division	4	
		UD UCA Core, <sup>1</sup> Minor Elective <sup>2,3</sup>	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> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.