

## Academic Map: Chemistry, Non-ACS

**Department:** \_\_\_\_\_ Chemistry \_\_\_\_\_ **Degree:** \_\_\_\_\_ BS \_\_\_\_\_  
**Program/Major:** \_\_\_\_\_ Chemistry \_\_\_\_\_  
**Track/Emphasis:** \_\_\_\_\_ Non-ACS \_\_\_\_\_  
**Does this program require a minor? (Yes/No)** \_\_\_\_\_ Yes \_\_\_\_\_

Important program information in the online *Undergraduate Bulletin*:

**UCA Core Requirements:** <http://uca.edu/ubulletin/general-policies-information/uca-core/>  
**LD Core Check Sheet:** <http://uca.edu/academicbulletins/ld-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-chemistry/>  
**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](http://uca.edu/academicbulletins/acts/) 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)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1450	College Chemistry I	4	<a href="#">CHEM1414</a>
WRTG	1310	Introduction to College Writing	3	<a href="#">ENGL1013</a>
MATH	1496	Calculus I	4	<a href="#">MATH2405</a>
		LD UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	<a href="#">CHEM1424</a>
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative (LD UCA Core: Research/Writing) <sup>1</sup>	3	<a href="#">ENGL1023</a> <a href="#">ENGL1023</a> <a href="#">core link</a>
MATH	1497	Calculus II	4	<a href="#">MATH2505</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>

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401	Organic Chemistry I	4	
PHYS	1441	University Physics 1	4	<a href="#">PHYS2034</a>
MATH	2471	Calculus III	4	<a href="#">MATH2603</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: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3411	Organic Chemistry II	4	
PHYS	1442	University Physics 2	4	<a href="#">PHYS2044</a>
CHEM	3211	Organic Spectroscopy	2	
		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>

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3520	Quantitative Analysis	5	
CHEM	4450	Physical Chemistry I	4	
BIOL	1440	Principles of Biology I	4	<a href="#">BIOL1014</a>
		General Elective, upper-division	3	

**Spring – Semester 6 (credit hours: 16)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4460	Physical Chemistry II	4	
CHEM	4320	Biochemistry I	3	
		UD UCA Core Course	3	
		Minor Elective <sup>2</sup>	3	
		Minor Elective <sup>2</sup>	3	

**Year 4****Fall – Semester 7 (Credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3360	Intermediate Inorganic	3	
		Minor Elective <sup>2</sup>	3	
		Minor Elective <sup>2</sup>	3	
		Minor Elective, upper-division <sup>2</sup>	3	
		UD UCA Core Course	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4112	Seminar: Capstone (UD UCA Core: Z)	1	
		UD UCA Core Course	3	
		General Elective	1	
		UD UCA Core Course (Minor Elective) <sup>2</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:****Notes**

<sup>1</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. Students are encouraged to choose a course in economics to fulfill either Lower Division Core social science category (ECON 2320 or 2321) or their responsible living category (ECON 1310) requirements.

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 undergraduate advisor to select appropriate courses to fulfill the UD UCA Core requirements. The capstone requirement is fulfilled by successful completion of CHEM 4112.

<sup>2</sup> This Academic Map includes 18 credit hours in the Minor field of study. Minor requirements range from 15 to 27 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.