

## Program Completion Plan (Eight Semester Plan)

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

Important program information in the online *Undergraduate Bulletin*:

**UCA Core Requirements:** <http://uca.edu/ubulletin2013/general-policies-information/uca-core/>  
**Degree Requirements:** <http://uca.edu/ubulletin2013/general-policies-information/degree-requirements/>  
**Program Description:** <http://uca.edu/ubulletin2013/colleges-departments-programs/college-of-natural-sciences-and-mathematics/department-of-chemistry/>  
**Course Descriptions:** <http://uca.edu/ubulletin2013/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/go/ubulletin-ldcore/) (<http://uca.edu/go/ubulletin-ldcore/>) takes the user to the *Undergraduate Bulletin's* UCA Core page, where UCA Core options and ACTS course numbers are listed in full; an [acts link](http://uca.edu/go/acts/) takes the user to the *Undergraduate Bulletin's* ACTS page (<http://uca.edu/go/acts/>) for additional information and a full UCA-ACTS crosswalk.

### Year 1

#### Fall – Semester 1 (credit hours: 17)

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

#### Spring – Semester 2 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chem II	4	<a href="#">CHEM1424</a>
MATH	1497	Calculus II	4	<a href="#">MATH2505</a>
BIOL	1440	Principles of Biology I	4	<a href="#">BIOL1014</a>
WRTG	1320	Academic Writing and Research	3	<a href="#">ENGL1023</a>

**Year 2****Fall – Semester 3 (credit hours: 15)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401	Organic Chemistry I	4	
BIOL	1441	Principles of Biology II	4	
MATH	2471	Calculus III	4	MATH2603
		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	
CHEM	3211	Organic Spectroscopy	2	
PHYS	1441	University Physics 1	4	PHYS2034
		UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3520	Quantitative Analysis	5	
CHEM	4320	Biochemistry I	3	
PHYS	1442	University Physics 2	4	PHYS2044
		UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4335	Biochemistry II	3	
BIOL	2490	Genetics	4	
CHEM	4121	Biochemistry Lab	1	
		UCA Core Course <sup>1</sup>	3	<a href="#">core link</a>
		General Elective	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
BIOL	3420	General Microbiology	4	
CHEM	4450	Physical Chemistry I	4	
		Upper Division General Elective	3	
CHEM		Research <sup>2</sup>	1	
		Inorganic Chemistry <sup>3</sup> or Upper Division General Elective	3	

**Spring – Semester 8 (Credit hours: 13)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4112	Seminar	1	
		General Elective	1	
CHEM		Research <sup>2</sup>	1	
		Inorganic Chemistry <sup>3</sup> or Upper Division General Elective	3	
CHEM	4460	Physical Chemistry II	4	
		General Elective	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*. 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 or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core.

<sup>2</sup> Students must take at least two hours of research.

<sup>3</sup> Students must take either CHEM 3360 (Intermediate Inorganic Chemistry) or CHEM 4380 (Advanced Inorganic Chemistry).