

Program Completion Plan (Eight Semester Plan)

Department: _____ Chemistry _____ **Degree:** _____ BS _____
Program/Major: _____ Chemistry _____
Track/Emphasis: _____ ACS Certified: Standard _____
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: 15)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1450	College Chemistry I	4	CHEM1414
WRTG	1310	Introduction to College Writing	3	ENGL1013
MATH	1496	Calculus I	4	MATH2405
		UCA Core Course ¹	3	core link
		General Elective	1	

Spring – Semester 2 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	CHEM1424
WRTG	1320	Academic Writing and Research	3	ENGL1023
MATH	1497	Calculus II	4	MATH2505
		UCA Core Course ¹	3	core link
		General Elective	1	

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401	Organic Chemistry I	4	
PHYS	1441	University Physics 1	4	PHYS2034
MATH	2471	Calculus III	4	MATH2603
		UCA Core Course ¹	3	core link

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3411	Organic Chemistry II	4	
PHYS	1442	University Physics 2	4	PHYS2044
CHEM	3211	Organic Spectroscopy	2	
MATH	3331	Differential Equations	3	
		UCA Core Course ¹	3	core link

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	BIOL1014
		UCA Core Course ¹	3	core link

Spring – Semester 6 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4460	Physical Chemistry II	4	
CHEM	4320	Biochemistry I	3	
		UCA Core Course ¹	3	core link
		UCA Core Course	3	core link
CHEM	4451	Advanced Analytical Chemistry ²	4	

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

SUBJ	NUM	TITLE	SCH	ACTS
		Upper Division Major Elective ³	3	
		Upper Division General Elective	3	
CHEM		Research ⁴	1	
		General Elective	3	
		General Elective	3	
		General Elective	1	

Spring – Semester 8 (Credit hours: 12)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4112	Seminar	1	
CHEM	4380	Advanced Inorganic Chemistry	3	
CHEM	3150	Inorganic Laboratory	1	
		General Elective	3	
CHEM		Research	1	
		General Elective	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 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.

² Must be taken in the semester offered.

³ Must be one of the following courses: CHEM 3360, CHEM 4335, CHEM 4351, CHEM 4385.

⁴ Students must take at least two hours of research.