

Program Completion Plan (Eight Semester Plan)

Department: Chemistry Degree: BS
 Program/Major: Environmental Science
 Track/Emphasis: Chemistry
 Does this program require a minor? (Yes/No) No

Important program information in the online *Undergraduate Bulletin*:

UCA Core Requirements: <http://uca.edu/ubulletin2014/general-policies-information/uca-core/>

Degree Requirements: <http://uca.edu/ubulletin2014/general-policies-information/degree-requirements/>
<http://uca.edu/ubulletin2014/colleges-departments-programs/interdisciplinary-programs/environmental-science#sec0203>

Program Description: <http://uca.edu/ubulletin2014/courses/>

Course Descriptions: <http://uca.edu/ubulletin2014/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/ubulletin2014-ldcore/) (<http://uca.edu/go/ubulletin2014-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: 14)

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

Spring – Semester 2 (credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	1451	College Chemistry II	4	CHEM1424
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative	3	ENGL1023 ENGL1023
MATH	1497	Calculus II	4	MATH2505
		UCA Core Course ¹	3	core link
		UCA Core Course ¹	3	core link

Year 2**Fall – Semester 3 (credit hours: 14)**

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	2401	Organic Chemistry I	4	
BIOL	1440	Biology I	4	BIOL1014
PSCI	1330	US Government and Politics ¹	3	PLSC2003
		UCA Core Course ¹	3	core link

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3411	Organic Chemistry II	4	
BIOL	1440	Biology II	4	
		UCA Core Course ¹	3	core link
		UCA Core Course ¹	3	core link
CHEM	3211	Organic Spectroscopy	2	

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

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	3520	Quantitative Analysis	5	
PHYS	1441 or 1410	University Physics 1 or College Physics 1	4	PHYS2034 PHYS2014
GEOG	1315	Intro. to Physical Geography	3	GEOG2223
		Restricted elective ²	3	

Spring – Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
ENVR	3410	Environmental Theory and Application ³	4	
PHYS	1442 1420	University Physics 2 or College Physics 2	4	PHYS2044 PHYS2024
CHEM	4451	Advanced Analytical Chemistry ⁴	4	
		General Elective	3	

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

SUBJ	NUM	TITLE	SCH	ACTS
ENVR	4410	Environmental Practicum ⁵	4	
		General Elective	3	
GEOG	3301	Conservation of Natural Resources	3	
		Upper-division restricted elective ²	3	
		Upper-division restricted elective ²	3	

Spring – Semester 8 (Credit hours: 13)

SUBJ	NUM	TITLE	SCH	ACTS
CHEM	4351	Environmental Chemistry ⁴	3	
CHEM	4152	Environmental Chemistry Laboratory ⁴	1	
		Upper-division restricted elective ²	1	
PSCI	3320	Environmental Policy and Regulation ⁶	3	
		General Electives	5	

 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*. 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. PSCI 1330 is a pre-requisite for PSCI 3320, but it counts toward the UCA Core. 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 Restricted elective (at least 10 hours): Choose from either CHEM 4450, CHEM 4460, CHEM 3360, CHEM 4335, CHEM 4320, CHEM 4335, CHEM 4380, CHEM 3150, BIOL 3403, ENVR 4465, GEOG 4304, GEOG 4305, ECON 3330, and a maximum of 2 credits of research in the College of Natural Science and Mathematics, or 8 hours of courses that count toward a minor in mathematics, biology, physics, or geography.

³ Fulfills the UCA Core requirement for Diversity and Responsible Living.

⁴ CHEM 4351 and CHEM 4152 are offered spring semester, odd years. CHEM 4451 will be offered spring semester, even years. Must be taken in semester offered.

⁵ Capstone.

⁶ PSCI 3320 is offered in the spring of every other year and has a pre-requisite of PSCI 1330.