

Program Completion Plan (Three Years with Summers)

Department: _____ Computer Science _____ **Degree:** _____ BS _____
Program/Major: _____ Computer Science _____
Track/Emphasis: _____
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-computer-science/>
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 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	1470	Computer Science I	4	
MATH	1491 or 1496	Applied Calculus for Life Science or Calculus I	4	MATH2405
WRTG	1310	Introduction to College Writing	3	ENGL1013
		Lab Science ¹	4	acts link

Spring (Credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	1480	Computer Science II	4	
MATH	2311	Statistical Methods I	3	MATH2103
MATH	2330	Discrete Structures I	3	
WRTG	1320	Academic Writing and Research	3	ENGL1023
		UCA Core: First Year Seminar ²	3	core link

Summer (Credit hours: 7)

SUBJ	NUM	TITLE	SCH	ACTS
		Lab Science	4	acts link
		UCA Core Requirement	3	core link

Year 2**Fall (Credit hours: 17)**

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	2320	Data Structures	3	
CSCI	2440	Assembly Language and Computer Organization	4	
MATH	3311	Statistical Methods II	3	
		Lab Science	4	acts link
		UCA Core Requirement	3	core link

Spring (Credit hours: 17)

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	3380	Computer Architecture	3	
CSCI	3330	Algorithms	3	
CSCI	3191	Social Implications of Technology	1	
CSCI	4191	Seminar	1	
CSCI		Computer Science Upper Level Elective ³	3	
		UCA Core Requirement	3	core link
MATH	3330	Discrete Structure II	3	

Summer (Credit hours: 9)

SUBJ	NUM	TITLE	SCH	ACTS
		UCA Core Requirement	3	core link
		UCA Core Requirement	3	core link
		General Elective	3	

Year 3**Fall (Credit hours: 18)**

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	3381	Object-Oriented Software Development	3	
CSCI	3360	Database Systems	3	
MATH	3320	Linear Algebra	3	
CSCI	4300	Operating Systems	3	
		UCA Core Requirement	3	core link
CSCI		Computer Science Upper Level Elective	3	

Spring (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
CSCI	4490	Software Engineering	4	
CSCI		Computer Science Upper Level Elective	3	
CSCI		Computer Science Upper Level Elective	3	
		General Elective or UCA Core Requirement (Life Science) if needed	3-4	core link
		General Elective	1-2	

Summer (Credit hours: 6)

SUBJ	NUM	TITLE	SCH	ACTS
		General Elective	3	
		General Elective	3	

Notes

¹ This degree program requires a minimum of 12 credit hours in Lab Sciences in Biology, Chemistry, and Physics. Courses satisfy the requirement include BIOL 1440 and 1441 (Biology I and II), CHEM 1450 and 1451 (College Chemistry I and II), PHYS 1410 and 1420 (College Physics I and II), and PHYS 1441 and 1442 (University Physics I and II). A student must take a sequence (8 credits) from one of the three subject areas and one course from an area outside of the sequence.

² 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, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core.

³ This program requires a student to take at least 9 credits of CS upper level (3xxx, 4xxx) electives. Descriptions of these courses are available via <http://uca.edu/ubulletin2013/courses/computer-science>.