

Program Completion Plan¹ (Eight Semester Plan)

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](#) 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 |
|------|-----------------|--|-----|---------------------------|
| 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 ² | 4 | acts link |

Spring – Semester 2 (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 ³ | 3 | core link |

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

| 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 |

Spring – Semester 4 (credit hours: 16)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|-----------------------|-----|---------------------------|
| CSCI | 3380 | Computer Architecture | 3 | |
| CSCI | 3330 | Algorithms | 3 | |
| | | Lab Science | 4 | acts link |
| | | UCA Core Requirement | 3 | core link |
| MATH | 3330 | Discrete Structure II | 3 | |

Year 3**Fall – Semester 5 (credit hours: 14)**

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|--------------------------------------|-----|---------------------------|
| CSCI | 3191 | Social Implications of Technology | 1 | |
| CSCI | 3381 | Object-Oriented Software Development | 3 | |
| CSCI | 3360 | Database Systems | 3 | |
| MATH | 3320 | Linear Algebra | 3 | |
| CSCI | 4191 | Seminar | 1 | |
| | | UCA Core Requirement | 3 | core link |

Spring – Semester 6 (credit hours: 15)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|--|-----|---------------------------|
| CSCI | 3370 | Principles of Programming Languages | 3 | |
| CSCI | | Computer Science Upper Level Elective ⁴ | 3 | |
| CSCI | | Computer Science Upper Level Elective | 3 | |
| | | UCA Core Requirement | 3 | core link |
| | | UCA Core Requirement | 3 | core link |

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

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|---|-----|---------------------------|
| CSCI | 4300 | Operating Systems | 3 | |
| CSCI | 4490 | Software Engineering | 4 | |
| | | UCA Core Requirement | 3 | core link |
| | | General Elective or UCA Core Requirement (Life Science)if needed | 3-4 | core link |
| | | General Elective | 1-2 | |

Spring – Semester 8 (Credit hours: 15)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|-----|---------------------------------------|-----|---------------------------|
| CSCI | | Computer Science Upper Level Elective | 3 | |
| | | UCA Core Requirement | 3 | core link |
| | | General Elective | 3 | |
| | | General Elective | 3 | |
| | | 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 CSCI 1470, 1480, and 2320 form a required three semester sequence. The completion of the sequence is the prerequisites for students to take junior level CSCI courses (CSCI 33xx).

² 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.

³ 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.

⁴ 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>.