# 2013-2014 Degree Map-Bachelor of Science in Computer Science

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at http://www.atu.edu/academics/catalog/.

**Possible careers include:** Computer and Information Systems Manager, Computer Programmer, Computer Systems Analyst, and Web Administrator

#Remedial Courses (if applicable):ENGL 0303____   ENGL 0404____   READ 0103____   MATH 0903____

Prerequisites (if applicable):MATH 1914(ACTS=MATH 1305)____   OR MATH 1203(ACTS=MATH1203)____, COMS 1003(ACTS=CPSI1003)____

## Sample Schedule — Milestones/Notes

| Semester 1 | Hrs. | Grade | Semester 1 |
|---|---|---|---|
| #ENGL 1013-Comp I (ACTS=ENGL 1013) | 3 | | |
| MATH 2914- Calculus I (ACTS= MATH 2405) | 4 | | C or > required for Gen Ed.   Milestone |
| U.S. History/Government | 3 | | |
| TECH 1001-Orientation to the University | 1 | | |
| COMS 1403- Orientation to Computing, Info, & Tech | 3 | | Milestone |
| COMS 1411- Computer and Information Science Lab | 1 | | Milestone |
| Total hours | 15 | GPA | |

| Semester 2 | Hrs. | | Semester 2 |
|---|---|---|---|
| #ENGL 1023- Comp II (ACTS= ENGL 1023) | 3 | | |
| Social Sciences | 3 | | |
| MATH 2924- Calculus II (ACTS= MATH 2505) | 4 | | Milestone |
| COMS 2003- Microcomputer Applications | 3 | | |
| #COMS 2104- Foundations of Computer Prog. I | 4 | | Milestone |
| Total hours | 17 | GPA | |

| Semester 3 | Hrs. | | Semester 3 |
|---|---|---|---|
| ELEG 2134/2130- Digital Logic Design/ Lab | 4 | | |
| Fine Arts & Humanities | 3 | | |
| COMS 2203- Foundations of Computer Prog II | 3 | | Milestone |
| COMS 2903-Discrete Structures | 3 | | Milestone |
| | | | |
| Total hours | 13 | GPA | |

| Semester 4 | Hrs. | | Semester 4 |
|---|---|---|---|
| ENGL 2053-Technical Writing (ACTS=ENGL 2023) | 3 | | |
| Science Sequence I (excluding BIOL)* | 4 | | See approved Sci. Sequence list below |
| COMS 2213- Data Structures | 3 | | Milestone |
| COMS 2223- Computer Organization and Prog. | 3 | | |
| COMS 3913- Advanced Discrete Structures | 3 | | |
| Total hours | 16 | GPA | **COMS ADVISOR ASSIGNED** |

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed at http://acts.adhe.edu/

## Sample Schedule — Milestones/Notes

| Semester 5 | Hrs. | Grade | Semester 5 |
|---|---|---|---|
| Science Sequence II (excluding BIOL)* | 4 | | See approved Sci. Sequence list below |
| MATH 3153- Applied Statistics I | 3 | | |
| COMS 2703/2700- Networks and Architecture/LAB | 3 | | |
| COMS 3213- Adv. Data Structures and Algorithm Design | 3 | | |
| COMS 4203- Database Concepts | 3 | | |
| Total hours | 16 | GPA | |

| Semester 6 | Hrs. | | Semester 6 |
|---|---|---|---|
| Fine Arts & Humanities | 3 | | |
| SPH 2173- Business and Professional Speaking | 3 | | No substitutions allowed |
| COMS 3703- Operating Systems | 3 | | |
| COMS 4163- Personal Software Engineering | 3 | | |
| COMS 4703/4700- Data Comms. and Networks/LAB | 3 | | |
| Total hours | 15 | GPA | **APPLY FOR GRADUATION** |

| Semester 7 | Hrs. | | Semester 7 |
|---|---|---|---|
| Social Sciences | 3 | | |
| MATH 4003- Linear Algebra I | 3 | | |
| COMS 3053- Implications of Technology on Society | 3 | | |
| COMS 4033- Systems and Analysis Design I | 3 | | |
| COMS 4103- Organization of Programming Languages | 3 | | |
| Total hours | 15 | GPA | |

| Semester 8 | Hrs. | | Semester 8 |
|---|---|---|---|
| COMS 4043- Systems Analysis and Design II | 3 | | |
| COMS 4403- Compiler Design | 3 | | **Graduation Requirements:** |
| COMS 4053, 4063 or approved MGMT elective | 3 | | 44 hours 3000-4000 level courses |
| Math or Science Elective (2000-4000 level) | 2 | | No more than 4 PE activity hours |
| General Elective (3000-4000 level) | 2 | | Min. hours required:120 |
| Total Hours | 13 | GPA | 2.00+ GPA |

**General Electives:** 2 hrs. (3000-4000 level)

**\*Science Sequence:** PHYS 2014/2000 & 2024/2010 or PHYS 2114/2000 & 2124/2010

# indicates a "C" or better is required

**Fine Arts and Humanities**
ART 2123 Experiencing Art (ACTS=ARTA 1003)
MUS 2003 Intro to Music (ACTS=MUSC 1003)
TH 2273 Intro to Theatre (ACTS =DRAM 1003)
ENGL 2173 Intro to Film
JOUR 2173 Intro to Film
ENGL 2003 Intro to World Literature (ACTS=ENGL 2113)
ENGL 2013 Intro to American Literature (ACTS=ENGL 2653)
ENGL 2023 Honors World Literature
PHIL 2003 Intro to Philosophy (ACTS=PHIL 1103)
PHIL 2043 Honors Introduction to Philosophy

**U.S. History & Government**
HIST 1903 Survey of American History
HIST 2003 U.S. History I (ACTS=HIST 2113)
HIST 2043 Honors U.S. History I
HIST 2013 U.S. History II (ACTS=HIST 2123)
POLS 2003 American Government (ACTS=PLSC 2003)

**Social Sciences**
HIST 1503 World Civilization (ACTS=HIST 1113)
HIST 1513 World Civilization II (ACTS=HIST 1123)
HIST 1543 Honors World Civilization I
HIST 2003 U.S. History I (ACTS=HIST 2113)
HIST 2013 U.S. HISTORY II (ACTS=HIST 2123)
HIST 2043 Honors U.S. History I
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC 2003)
ECON 2003 Principles of Economics I (ACTS=ECON 2103)
ECON 2103 Honors Principles of Economics I

ECON 2103 Honors Principles of Economics I
ECON 2013 Principles of Economics II (ACTS=ECON 2203)
SOC 1003 Intro Sociology (ACTS=SOCI 1013)
PSY 2003 General Psychology (ACTS=PSYC 1103)
ANTH 1213 Intro to Anthropology (ACTS=ANTH 1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH 2013)
GEOG 2013 Rgnl Geog of the World (ACTS=GEOG 2103)
AMST 2003 American Studies