

**2026-2027 Degree Map-Bachelor of Science in Chemistry, General Option**

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 <https://catalog.atu.edu/>

#Prerequisite Courses: ENGL 0303 \_\_\_ MATH 0803 \_\_\_ MATH 1003 \_\_\_ MATH 0903 \_\_\_ MATH 1113 \_\_\_  
 MATH 1110 \_\_\_ MATH 1203 \_\_\_ MATH 1914 \_\_\_ COMS 1003 \_\_\_

Possible Careers: Product and Process Development, Analysis, Testing, Biotechnology, Consulting, Quality Assurance/Quality Control, Management, Environmental Analysis & Forensics

**Sample Schedule**
**Milestones/Notes**

| Semester 1                                  | Hrs. | Grade | Semester 1                  |
|---|------|-------|-----------------------------|
| ENGL 1013- Comp I (ACTS=ENGL 1013)          | 3    | #     |                             |
| Social Science                              | 3    |       |                             |
| MATH 2914- Calculus I (ACTS= MATH 2405)     | 4    | #     | #C or > required for Gen Ed |
| PHSC 1001- Orientation to Physical Science  | 1    |       |                             |
| CHEM 2124/2120- General Chemistry I and lab | 4    | #     |                             |
| Total hours                                 | 15   | GPA   |                             |

**Sample Schedule**
**Milestones/Notes**

| Semester 5                                 | Hrs. | Grade | Semester 5  |
|--|------|-------|---|
| Fine Arts & Humanities                     | 3    |       |   |
| CHEM 3301- Chemistry Seminar               | 1    | #     |   |
| CHEM 3324- Physical Chemistry I            | 4    | #     |   |
| CHEM 3423- Descriptive Inorganic Chemistry | 3    | #     |   |
| Science Elective                           | 3    |       | Choose from BIOL, GEOL, PHYS, PHSC (excl. BIOL 1014, PHSC 1013/1021 and CHEM) |
| Total hours                                | 14   | GPA   |   |

| Semester 2   | Hrs. | Grade | Semester 2  |
|--|------|-------|---|
| ENGL 1023- Comp II (ACTS= ENGL 1023)               | 3    | #     |   |
| BIOL 1114- Principles of Biology (ACTS= BIOL 1014) | 4    |       |   |
| MATH 2924- Calculus II (ACTS= MATH 2505)           | 4    |       |   |
| PHSC 1011- Orientation to Physical Science II      | 1    |       | No Substitutions  |
| CHEM 2134/2130- General Chemistry II and lab       | 4    | #     | Freshman Milestone: Visit the Tutoring Center at least once |
| Total hours  | 16   | GPA   |   |

| Semester 6   | Hrs. | Grade | Semester 6  |
|--|------|-------|---|
| Fine Arts & Humanities                             | 3    |       | Junior Milestone: Attend a career fair or networking event              |
| CHEM 3344/3340- Principles of Biochemistry and lab | 4    | #     |   |
| *General Elective                                  | 3    |       | Recommended electives: German, Statistics, or ENGL 2053 (ACTS=ENGL2023) |
| *General Elective                                  | 2    |       |   |
| Total hours  | 12   | GPA   | <b>APPLY FOR GRADUATION</b>   |

| Semester 3  | Hrs. | Grade | Semester 3 |
|---|------|-------|------------|
| Social Science  | 3    |       |            |
| PHYS 2014/2114/2000- Algebra or Cal-Based Physics I and lab | 4    |       |            |
| COMS 1013/1011- Programming Foundations I and Lab           | 4    |       |            |
| CHEM 3254/3250- Fundamentals of Org. Chemistry and lab      | 4    | #     |            |
| Total hours   | 15   | GPA   |            |

| Semester 7                       | Hrs. | Grade | Semester 7                        |
|----------------------------------|------|-------|-----------------------------------|
| CHEM 4414- Instrumental Analysis | 4    | #     |                                   |
| CHEM Elective                    | 3    | #     | Any CHEM excluding CHEM 1113/1111 |
| *General Elective                | 3    |       |                                   |
| *General Elective                | 3    |       |                                   |
| General Elective                 | 3    |       |                                   |
| Total hours                      | 16   | GPA   |                                   |

| Semester 4   | Hrs. | Grade | Semester 4  |
|--|------|-------|---|
| U.S. History & Government                                    | 3    |       |   |
| PHYS 2024/2114/2010- Algebra or Cal-Based Physics II and lab | 4    |       |   |
| CHEM 3245- Quantitative Analysis                             | 5    | #     |   |
| CHEM 3264/3260- Mechanistic Organic Chemistry and lab        | 4    | #     |   |
|  |      |       | Sophomore Milestone: Meet with faculty about career paths in your field |
| Total hours  | 16   | GPA   | <b>CHEM ADVISOR ASSIGNED</b>  |

| Semester 8                           | Hrs. | Grade | Graduation Requirements:  |
|--------------------------------------|------|-------|---|
| Social Sci/Fine Arts/Humanities/Comm | 3    |       | Min. hours 3000-4000 level courses: 40                            |
| CHEM 4401- Chemistry Seminar         | 1    | #     | No more than 4 PE activity hours                                  |
| CHEM Elective                        | 3    | #     | Min. hours required:120   |
| *General Elective                    | 3    |       | 2.00+ GPA   |
| *General Elective                    | 3    |       |   |
| *General Elective                    | 3    |       | Senior Milestone: Complete a senior check-in with Career Services |
| Total Hours                          | 16   | GPA   |   |

\*General Electives: 14 hours (1000-4000 level); 10 hours (3000-4000 level)

# indicates a "C" or better is required

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 by searching keyword "ACTS" at <https://adhe.edu/>

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| <b>Fine Arts and Humanities</b><br>ART 2123 Experiencing Art (ACTS=ARTA1003)<br>MUS 2003 Survey of Music History (ACTS=MUSC1003)<br>TH 2273 Introduction to Theatre (ACTS=DRAM 1003)<br>ENGL/IOUR 2173 Introduction to Film<br>ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)<br>ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)<br>PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)<br>PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)<br>1013 from SPAN, FR, GER, JPN, CHIN, or LAT<br>1023 from SPAN, FR, GER, JPN, CHIN, or LAT<br>LEAD 2003 Ethics in Leadership | <b>U.S. History &amp; Government</b><br>HIST 1903 Survey of American History<br>HIST 2003 U.S. History to 1877 (ACTS=HIST2113)<br>HIST 2013 U.S. History since 1877 (ACTS=HIST2123)<br>POLS 2003 American Government (ACTS=PLSC2003) |
| <b>University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.</b>   |  |

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|---|---|
| <b>Social Sciences</b><br>HIST 1503 World History to 1500 (ACTS=HIST1113)<br>HIST 1513 World History since 1500 (ACTS=HIST1123)<br>HIST 2003 U.S. History to 1877 (ACTS=HIST2113)<br>HIST 2013 U.S. History since 1877 (ACTS=HIST2123)<br>HIST 1903 Survey of American History<br>POLS 2003 American Government (ACTS=PLSC2003)<br>ECON 2003 Principles of Macroeconomics (ACTS=ECON2103)<br>ECON 2013 Principles of Microeconomics (ACTS=ECON2203)<br>SOC 1003 Introductory Sociology (ACTS=SOCI1013)<br>PSY 2003 General Psychology (ACTS=PSYC1103) | ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)<br>ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)<br>GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)<br>AMST 2003 American Studies<br>FIN 2013 Personal Finance<br>LEAD 1003 Introduction to Leadership |
| <b>Communication Courses</b><br>COMM 1003 Intro to Speech Comm<br>COMM 2003 Public Speaking<br>COMM 2173 Business and Professional Speaking   |   |