

**2023-2024 Degree Map-Bachelor of Science in Biology: 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 <http://www.atu.edu/catalog/>

**Possible careers include: Clinical Research Coordinator, Water Resource Specialist, Molecular and Cellular Biologist, Life Scientist, Biological Science Teacher**

#Prerequisite Courses: ENGL 0303 \_\_\_\_\_ MATH 0803 \_\_\_\_\_ MATH 1003 \_\_\_\_\_ MATH 0903 \_\_\_\_\_ MATH 1110 \_\_\_\_\_

| Sample Schedule                                    | Milestones/Notes |              |                   |
|--|------------------|--------------|-------------------|
| <b>Semester 1</b>                                  | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 1</b> |
| ENGL 1013-Comp I (ACTS=ENGL 1013)                  | 3                | #            |                   |
| Social Science                                     | 3                |              |                   |
| MATH 1113- College Algebra (ACTS= MATH 1103)       | 3                | #            |                   |
| BIOL 1011- Orientation to the Biological Sciences  | 1                |              |                   |
| BIOL 1114- Principles of Biology (ACTS= BIOL 1014) | 4                |              |                   |
| Total hours  | 14               | GPA          |                   |

| Sample Schedule                            | Milestones/Notes |              |  |
|--|------------------|--------------|--|
| <b>Semester 2</b>                          | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 2</b>  |
| ENGL 1023- Comp II (ACTS= ENGL 1023)       | 3                | #            |  |
| Social Science                             | 3                |              |  |
| Physical Activity                          | 2                |              |  |
| BIOL 2124- Principles of Zoology           | 4                |              |  |
| Math Elective (Math higher than MATH 1113) | 3                |              | Math elective courses in the areas of statistics, biostatistics, and/or calculus are recommended |
| Total hours                                | 15               | GPA          |  |

| Sample Schedule  | Milestones/Notes |              |                                 |
|--|------------------|--------------|---------------------------------|
| <b>Semester 3</b>                                      | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 3</b>               |
| U.S. History & Government                              | 3                |              |                                 |
| CHEM 2124/2120- Gen. Chem. I (ACTS=CHEM1414) MILESTONE | 4                |              | <b>Complete by Semester 4</b>   |
| BIOL 2134- Principles of Botany                        | 4                |              |                                 |
| BIOL 3033- Bioinformatics <b>or</b> any COMS           | 3                |              | See catalog for recommendations |
| *General Elective                                      | 3                |              |                                 |
| Total hours  | 17               | GPA          |                                 |

| Sample Schedule                                       | Milestones/Notes |              |                              |
|---|------------------|--------------|------------------------------|
| <b>Semester 4</b>                                     | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 4</b>            |
| COMM 2003- Public Speaking                            | 3                |              | COMM 2173 may substitute.    |
| CHEM2134/2130- General Chemistry II (ACTS= CHEM 1424) | 4                |              |                              |
| BIOL 3034: Genetics                                   | 4                |              |                              |
| *Biology elective                                     | 4                |              |                              |
| Total hours   | 15               | GPA          | <b>BIOL ADVISOR ASSIGNED</b> |

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/>

# indicates a "C" or better is required

|  |  |
|--|--|
| <b>Fine Arts and Humanities</b><br>ART 2123 Experiencing Art (ACTS=ARTA1003)<br>MUS 2003 Introduction to Music (ACTS=MUSC1003)<br>TH 2273 Introduction to Theatre (ACTS=DRAM 1003)<br>ENGL/JOUR 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>   |  |

| Sample Schedule  | Milestones/Notes |              |  |
|--|------------------|--------------|--|
| <b>Semester 5</b>  | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 5</b>  |
| CHEM 3254- Fundamentals of Organic Chemistry             | 4                |              |  |
| PHYS 2014/2000- Algebra-Based Physics I (ACTS=PHYS 2014) | 4                |              |  |
| BIOL 3114- Principles of Ecology                         | 4                |              | See Note 1 Below   |
| Math Elective (math higher than MATH 1113)               | 3                |              | Math elective courses in the areas of statistics, biostatistics, and/or calculus are recommended |
| Total hours  | 15               | GPA          |  |

| Sample Schedule   | Milestones/Notes |              |                             |
|---|------------------|--------------|-----------------------------|
| <b>Semester 6</b>   | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 6</b>           |
| CHEM 3264- Mechanistic Organic Chemistry                  | 4                |              |                             |
| PHYS 2024/2010- Algebra-Based Physics II (ACTS=PHYS 2024) | 4                |              |                             |
| Biology Elective (3000-4000 level)                        | 4                |              |                             |
| *General Elective   | 3                |              |                             |
| Total hours   | 15               | GPA          | <b>APPLY FOR GRADUATION</b> |

| Sample Schedule                               | Milestones/Notes |              |                                      |
|---|------------------|--------------|--------------------------------------|
| <b>Semester 7</b>                             | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 7</b>                    |
| Fine Arts & Humanities                        | 3                |              |                                      |
| Physiology or Cellular Elective (See Catalog) | 3-4              |              | See Tech Catalog for recommendations |
| *Biology Elective                             | 3-4              |              |                                      |
| *General Elective                             | 3                |              |                                      |
| *General Elective                             | 2                |              |                                      |
| Total hours                                   | 14-16            | GPA          |                                      |

| Sample Schedule                               | Milestones/Notes |              |  |
|---|------------------|--------------|--|
| <b>Semester 8</b>                             | <b>Hrs.</b>      | <b>Grade</b> | <b>Semester 8</b>  |
| Fine Arts & Humanities                        | 3                |              | <b>Graduation Requirements:</b><br>Min. hours 3000-4000 level courses: 40<br>No more than 4 PE activity hours<br>Min. hours required:120<br>2.00+ GPA<br>No more than 12 hours of "D" grades |
| Physiology or Cellular Elective (See Catalog) | 3-4              |              |  |
| BIOL 4891- Seminar in Biology                 | 1                |              |  |
| *Biology Elective                             | 3-4              |              |  |
| *General Elective                             | 3                |              |  |
| Total Hours                                   | 13-15            | GPA          |  |

General Electives: 14 hours (\*Must choose sufficient General and Biology Electives at 3000-4000 level to constitute a total of 40 upper level hours)

**NOTE 1:** BIOL 4094 Coastal Ecology in May mini-term can serve as an alternate to BIOL 3114 Principles of Ecology in the BIOL major.

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