

2013-2014 Degree Map-Bachelor of Science in Biology: Biomedical 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/academics/catalog/>.

Possible careers include: Clinical Research Coordinator, Water Resource Specialist, Molecular and Cellular Biologist, Life Scientist, Biological Science Teacher, Surgeon (MD), Anesthesiologist (MD), Cardiologist (MD), General Internist (MD), Pathologist (MD), Geneticist, Dentistry, Physical Therapy (all medical fields pending medical school)

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

Sample Schedule
Milestones/Notes

| Semester 1 | Hrs. | Grade | Semester 1 |
|---|-------|-------|---------------------------|
| #ENGL 1013--Comp I (ACTS=ENGL 1013) | 3 | | |
| CHEM2124/2120: Gen. Chem. I (ACTS=CHEM1414) MILESTONE | 4 | | |
| #MATH1113: College Algebra or MATH1914: Pre-Calc. | 3-4 | | (ACTS= MATH 1103 or 1305) |
| BIOL1011: Orientation to the Biological Sciences | 1 | | |
| BIOL1114: Principles of Biology (ACTS= BIOL 1014) | 4 | | |
| Total hours | 15-16 | GPA | |

| Semester 2 | Hrs. | Grade | Semester 2 |
|---|------|-------|---------------------------|
| #ENGL 1023: Comp II (ACTS= ENGL 1023) | 3 | | |
| CHEM2134/2130: General Chemistry II (ACTS= CHEM 1424) | 4 | | |
| BIOL 2124: Zoology or BIOL 2134: Botany | 4 | | (ACTS= BIOL 1054 or 1034) |
| COMS Elective | 3 | | |
| Total hours | 14 | GPA | |

| Semester 3 | Hrs. | Grade | Semester 3 |
|--|------|-------|---------------------------|
| Speech | 3 | | |
| Social Science | 3 | | |
| CHEM3254: Fundamentals of Org. Chemistry MILESTONE | 4 | | |
| BIOL2014: Human Anatomy | 4 | | |
| BIOL 2124: Zoology or BIOL 2134: Botany | 4 | | (ACTS= BIOL 1054 or 1034) |
| Total hours | 18 | GPA | |

| Semester 4 | Hrs. | Grade | Semester 4 |
|---|------|-------|------------------------------|
| SOC 1003: Sociology or PSY 2003: Psychology | 3 | | (ACTS= SOCI1013 or PSYC1103) |
| Statistics: PSY/SOC 2053 or MATH 2163 | 3 | | MATH 2163 (ACTS=MATH2103) |
| CHEM3264: Mechanistic Organic Chemistry | 4 | | |
| BIOL3074: Human Physiology | 4 | | |
| Total hours | 14 | GPA | BIOL 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/>

| Fine Arts and Humanities | U.S. History & Government |
|--|--|
| ART 2123 Experiencing Art (ACTS=ARTA1003) | HIST 1903 Survey of American History |
| MUS 2003 Introduction to Music (ACTS=MUSC1003) | HIST 2003 U.S. History I (ACTS=HIST2113) |
| TH 2273 Introduction to Theatre (ACTS=DRAM 1003) | HIST 2043 Honors U.S. History I |
| ENGL 2173 Introduction to Film | HIST 2013 U.S. History II (ACTS=HIST2123) |
| JOUR 2173 Introduction to Film | POLS 2003 American Government (ACTS=PLSC2003) |
| ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) | Speech Courses |
| ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) | SPH 1003 Intro. to Speech Com. (ACTS=SPCH1003) |
| ENGL 2023 Honors World Literature | SPH 2003 Public Speaking |
| PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) | SPH 2173 Business and Professional Speaking |
| PHIL 2043 Honors Introduction to Philosophy | |

Sample Schedule
Milestones/Notes

| Semester 5 | Hrs. | Grade | Semester 5 |
|--|-------|-------|--------------------------------|
| Fine Arts & Humanities | 3 | | |
| PHYS2014: Physical Principles I (ACTS=PHYS 2014) | 4 | | |
| BIOL3034: Genetics | 4 | | |
| Cellular Elective (choose from list to right) | 3-4 | | BIOL 3054, 4023, 4033, or 4074 |
| Total hours | 14-15 | GPA | |

| Semester 6 | Hrs. | Grade | Semester 6 |
|---|-------|-------|-----------------------------|
| U.S. HISTORY & GOVERNMENT | 3 | | |
| PHYS2024: Physical Principles II (ACTS=PHYS 2024) | 4 | | |
| BIOL 3114: Ecology or BIOL 4094: Coastal Ecology | 4 | | |
| MATH 2914 or other MATH higher than MATH 1113 | 3-4 | | MATH 2914:(ACTS=MATH2405) |
| Total hours | 14-15 | GPA | APPLY FOR GRADUATION |

| Semester 7 | Hrs. | Grade | Semester 7 |
|---|-------------|-------|--|
| Biomedical Elective (choose from list to right) | 3 | | AHS 2013, PE 2513, PHIL 3103, PSY 3063, SOC 3173, or SOC 4053 |
| Consult your Biomedical Advisor to select two courses each from Group 1 and 2 | 6-8 | | Group1: BIOL 3054, 4023, 4033, 4074, 4951-4, CHEM 3363 or 3344 |
| | 6-8 | | Group2: BIOL 3024, 3064, 3803, 4054, 4083, 4951-4 or NUR 2303 |
| | Total hours | 15-19 | GPA |

| Semester 8 | Hrs. | Grade | Semester 8 |
|--|------|-------|---|
| Fine Arts & Humanities | 3 | | Graduation Requirements: 40 hours 3000-4000 level courses No more than 4 PE activity hours Min. hours required:120 No more than 12 hours of "D" grades |
| BIOL4891: Seminar in Biology | 1 | | |
| General Electives (as needed to reach 120 hours) | 5-12 | | |
| Total Hours | 9-16 | GPA | |

General Electives: 5 - 12 hours (1000-4000 level) as need to complete 40 hrs. total of 3000-4000 level courses.

indicates a "C" or better is required

| | Social Sciences |
|---|---|
| HIST 1503 World Civilization (ACTS=HIST1113) | ECON 2013 Principles of Economics II (ACTS=ECON2203) |
| HIST 1513 World Civilization II (ACTS=HIST1123) | SOC 1003 Introductory Sociology (ACTS=SOCI1013) |
| HIST 1543 Honors World Civilization I | PSY 2003 General Psychology (ACTS=PSYC1103) |
| HIST 2003 U.S. History I (ACTS=HIST2113) | ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013) |
| HIST 2013 U.S. HISTORY II (ACTS=HIST2123) | ANTH 2003 Cultural Anthropology (ACTS=ANTH2013) |
| HIST 2043 Honors U.S. History I | GEOG 2013 Regional Geography of the World (ACTS=GEOG2103) |
| HIST 1903 Survey of American History | AMST 2003 American Studies |
| POLS 2003 American Government (ACTS=PLSC2003) | |
| ECON 2003 Principles of Economics I (ACTS=ECON2103) | |
| ECON 2103 Honors Principles of Economics I | |