

2018-2019 Degree Map-Bachelor of Science in Physics Education

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: Biological Science Teacher, Forestry/Conservation Science Teacher, Atmospheric, Earth, Marine, and Space Science Teacher, Chemistry Teacher, Environmental Science Teacher, Physics Teacher

#Prerequisite Courses: ENGL 0303 ___ ENGL 0404 ___ READ 0103 ___ MATH 0803 ___ MATH 1003 ___ MATH 0903 ___ MATH 0900 ___ MATH 1110 ___ MATH 1203 ___ MATH 1914 ___

Sample Schedule
Milestones/Notes

| Semester 1 | Hrs. | Grade | Semester 1 |
|--|------|-------|------------------------------------|
| ENGL 1013- Comp I (ACTS=ENGL 1013) | 3 | # | Required for admission to Stage II |
| PHSC 1053- Astronomy | 3 | | |
| MATH 2914- Calculus I (ACTS= MATH 2405) | 4 | # | Required for admission to Stage II |
| CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414) | 4 | # | |
| PHSC 1001- Orientation to Physical Science | 1 | # | |
| Total hours | 15 | GPA | |
| Semester 2 | Hrs. | Grade | Semester 2 |
| ENGL 1023- Comp II (ACTS= ENGL 1023) | 3 | # | Required for admission to Stage II |
| BIOL/ENVS/PHSC 1004- Principles of Environmental Science | 4 | # | |
| MATH 2924- Calculus II (ACTS= MATH 2505) | 4 | # | |
| CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424) | 4 | # | |
| PHSC 1011- Orientation to Physical Science II | 1 | # | |
| Total hours | 16 | GPA | |
| Semester 3 | Hrs. | Grade | Semester 3 |
| HIST 1903- Survey of American History | 3 | # | |
| PHYS 2114/2000- General Physics I (ACTS=PHYS2034) | 4 | # | Pre/co-requisite: MATH 2924 |
| MATH 2934- Calculus III (ACTS= MATH 2603) | 4 | # | |
| POLS 2003- American Government (ACTS= PLSC2003) | 3 | # | |
| SEED 2002- Education as a Profession | 2 | # | Required for admission to Stage II |
| Total hours | 16 | GPA | |
| Semester 4 | Hrs. | Grade | Semester 4 |
| COMM 2003- Public Speaking | 3 | # | Required for admission to Stage II |
| PHYS 2124/2010-General Physics II (ACTS=PHYS2044) | 4 | # | |
| MATH 3243- Differential Equations | 3 | # | Prerequisite: MATH 2924 |
| PHSC 2003- Physics in Society and the Environment | 3 | | |
| General Elective | 3 | | 2.70+ GPA REQUIRED |
| Total hours | 16 | GPA | PHYS & SEED 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

ART 2123 Experiencing Art (ACTS=ARTA1003)
 MUS 2003 Introduction to Music (ACTS=MUSC1003)
 TH 2273 Introduction to Theatre (ACTS=DRAM 1003)
 ENGL 2173 Introduction to Film
 JOUR 2173 Introduction to Film
 ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
 ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
 ENGL 2023 Honors World Literature
 PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)
 PHIL 2043 Honors Introduction to Philosophy
 PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

Sample Schedule
Milestones/Notes

| Semester 5 | Hrs. | Grade | Semester 5 |
|---|------|-------|---|
| Fine Arts & Humanities | 3 | | Apply for Admission to Stage II |
| Fine Arts & Humanities | 3 | | |
| ANTH 2003- Cultural Anthropology (ACTS=ANTH 2013) | 3 | # | |
| PHYS 3213- Modern Physics OR PHYS 3133- Theory of Electricity and Magnetism | 3 | # | Prereq: PHYS 2124, PHYS 3213 offered fall odd years, PHYS offered fall even years |
| PHYS, PHSC, CHEM, or MATH Elective | 3 | # | |
| Total hours | 15 | GPA | |
| Semester 6 | Hrs. | Grade | Semester 6 |
| COMS 2003-Microcomputer Applications OR COMS 2803- Programming in C | 3 | # | Prerequisite: COMS 1003/BUAD 2003 |
| PHYS 4113- Advanced Physics Laboratory OR PHYS 4993- Special Problems in Physics and Astronomy | 3 | # | Prerequisite: PHYS 3213 |
| PHSC 3033- Meteorology | 3 | # | Prereq: any PHSC course, offered spring only |
| PHSC 3252- The Nature and Context of Science | 2 | # | offered spring only |
| SEED 3702- Introduction to Educational Technology | 2 | | |
| Total hours | 13 | GPA | APPLY FOR GRADUATION |
| Semester 7 | Hrs. | Grade | Semester 7 |
| PHYS 3213- Modern Physics OR PHYS 3133- Theory of Electricity and Magnetism | 3 | # | Prereq: PHYS 2124, PHYS 3213 offered fall odd years, PHYS offered fall even years |
| PHSC/BIOL 3233- Science Education in the Secondary School | 3 | # | Prereq: 16 hours BIOL or PHSC and SEED 2002 |
| SEED 4054- Educating Developing, Diverse, and Exceptional Learners | 2 | # | |
| SEED 4556-Classroom Application of Educational Psychology | 6 | # | |
| Total hours | 16 | GPA | Apply for Internship |
| Students must receive passing Praxis II scores to be admitted to Internship | | | |
| Semester 8 | Hrs. | Grade | Semester 8 |
| PHSC 4701- Special Methods in Physical Science | 1 | # | MUST BE ADMITTED TO INTERNSHIP |
| SEED 4503- Seminar in Secondary Education | 3 | # | |
| SEED 4909- Teaching in the Secondary School | 9 | # | |
| Total Hours | 13 | GPA | Graduation Requirements: Min. 120 earned hours 2.70+ GPA |

General Electives: 1 hour (1000-4000 level)

indicates a "C" or better is required