



## Checklist for Bachelor of Science Degree in Biology, Teacher Licensure Option

### Highly Recommended Courses:

BIO 1023	General Biology for Majors
BIO 1021	Introduction to Biology Laboratory
CHM 1034	General Chemistry for Non-Majors
CHM 1044	General Organic and Biochemistry for Non-Majors

### Required Core Courses:

BIO 2104	General Botany
BIO 2114	General Zoology

Note: Biology majors are required to enroll in and successfully complete botany (BIO 2104) and zoology (BIO 2114) within their first four semesters at HSU. Students must meet with their departmental advisor to determine the schedule appropriate for them.

BIO 2094	Microbiology
BIO 3054	Genetics
BIO 3524	General Ecology
BIO 4214	Cell Biology
BIO 3423	Teaching Methods in Biological Sciences

### Choose ONE (1) of the following upper-level electives:

BIO 3314	Animal Physiology
BIO 3304	Plant Physiology
BIO 3084	Comparative Anatomy and Evolution of Vertebrates
BIO 3244	Comparative Morphology and Evolution of Plants

### Choose ONE (1) additional upper-level elective:

This course may be from the upper-level electives listed in the above section, if not already used as the upper-level elective, or another upper-level biology course listed in the Henderson catalog, provided it has not been used in one of the above categories. BIO 4251, BIO 4373, BIO 4451, and BIO 4823 may not be used for this requirement. Two semesters of Human Anatomy and Physiology will satisfy one requirement.

### Additional Science and Mathematics Requirements

CHM 1014, 1024	University Chemistry I and II (including laboratories)
MTH 1243	College Algebra (or higher level math) AND
STA 2053	Applied Biostatistics or equivalent/more advanced course, with departmental approval
PHY 2034, 2044	General Physics I and II

### Education Requirements:

#### PLT Module I

EDU 2000	Teacher Education Orientation
EDU 2423	Introduction to Education
EDU 2043	Educational Technology

PLT Module II

SPE 3013 Psychology of the Exceptional Child  
EDU 3123 Educational Psychology

PLT Module III

EDU 4402 Assessment and Educational Measurement (grades 7-12)\*\*  
EDU 4113 Classroom Management (grades 7-12)\*\*

Professional Semester

EDU 4216 (grades 7-12) Internship Content\*\*  
EDU 4256 (grades 7-12) Internship Clinical\*\*

*\*\*Must be admitted to Teacher Education Program*

*\*\*Teacher Education Program Admission*

- Minimum GPA of 2.7 overall
- A minimum grade of a "C" in English A and B, Oral Communication, College Algebra, or approved equivalent
- Earn "CR" in EDU 2000 Teacher Education Orientation
- Pass Admissions Interview
- Meet the established guidelines on the ACT or Praxis CORE

**Total hours required for a major in biology, Bachelor of Science, Teacher Licensure**

**Track:**.....86-88 hours  
    Biology Courses: 35-36 hours  
    Physical Science and Mathematics Courses: 22-23 hours  
    Education Courses: 29 hours

**PRAXIS II TESTS**

- Candidates should take specific Praxis II-Biology: Content Knowledge exam before the senior year and must pass at the Arkansas cut-off score prior to internship.
- Praxis II-Principles of Learning and Teaching must be passed prior to graduation, but may be taken earlier.

Students must have a "C" grade or better in all courses in the major field and also in the courses listed as "additional requirements."

The biology department highly recommends that students achieve competence in the use of computers for word processing, graph and spreadsheet construction, and PowerPoint presentations before enrolling in upper-level courses. Students should consider enrolling in Introduction to Computers (CSC 2003) if their background in computer use is weak.