

# SECONDARY EDUCATION

## LIFE SCIENCE EDUCATION FOR TEACHER LICENSURE

See the *College of Education and Health* page for additional requirements.

For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements please see the teacher education student services website. <https://www.atu.edu/teachereducation/>

### Curriculum

The matrix below is a sample plan for all coursework required for this program.

#### Freshman

Fall	Credits
ENGL 1013 Composition I <sup>1</sup>	3
MATH 1113 College Algebra <sup>3</sup>	3
BIOL 1011 Orientation to the Biological Sciences	1
BIOL 1114 Principles of Biology	4
CHEM 2124 General Chemistry I and CHEM 2120 General Chemistry I Lab	4
<b>Total Hours</b>	<b>15</b>

Spring	Credits
ENGL 1023 Composition II <sup>1</sup>	3
HIST 1903 Survey of American History	3
BIOL 2124 Principles of Zoology or BIOL 2134 Principles of Botany	4
CHEM 2134 General Chemistry II and CHEM 2130 General Chemistry II Lab	4
<b>Total Hours</b>	<b>14</b>

#### Sophomore

Fall	Credits
GEOL 1004 Essentials of Earth Science or GEOL 1014 Physical Geology	4
STAT 2163 Introduction to Statistical Methods	3
BIOL 2124 Principles of Zoology or BIOL 2134 Principles of Botany	4
PHYS 2014 Algebra-Based Physics I and PHYS 2000 Physics Laboratory I	4
SEED 2002 Education as a Profession	2
<b>Total Hours</b>	<b>17</b>

Spring	Credits
COMM 2003 Public Speaking	3

Secondary Education

Spring	Credits
ANTH 2003 Cultural Anthropology	3
BIOL 3114 Principles of Ecology/FW 3114 Principles of Ecology	4
PHYS 2024 Algebra-Based Physics II and PHYS 2010 Physics Laboratory II	4
POLS 2003 American Government	3
<b>Total Hours</b>	<b>17</b>

**Junior**

Fall	Credits
BIOL 2004 Basic Human Anatomy and Physiology	4
CHEM 3254 Fundamentals of Organic Chemistry	4
MATH 2243 Calculus for Business and Economics	3
SEED 3702 Introduction to Educational Technology	2
<b>Total Hours</b>	<b>13</b>

Spring	Credits
FAH 1XXX Fine Arts and Humanities Courses <sup>1</sup>	3
BIOL 3034 Genetics	4
BIOL 3054 Microbiology and 3 hrs Biology Elective or BIOL 4033 Cell Biology and 4 hrs Biology Elective	7
BIOL 3252 The Nature and Context of Science/PHSC 3252 The Nature and Context of Science	2
<b>Total Hours</b>	<b>16</b>

**Senior**

Fall	Credits
FAH 1XXX Fine Arts and Humanities Courses <sup>1</sup>	3
BIOL 3233 Science Education in the Secondary School/PHSC 3233 Science Education in the Secondary School	3
BIOL 4891 Seminar in Biology	1
SEED 4054 Educating Developing, Diverse, and Exceptional Learners	4
SEED 4556 Classroom Application of Educational Psychology	6
<b>Total Hours</b>	<b>17</b>

Spring	Credits
BIOL 4701 Special Methods in Biology	1
SEED 4503 Seminar in Secondary Education	3
SEED 4909 Teaching in the Secondary School <sup>2</sup>	9

Spring	Credits
<b>Total Hours</b>	<b>13</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements".

<sup>2</sup>For teacher licensure, students must achieve the minimum score on the Praxis II Specialty Area and Principles of Learning and Teaching Tests as determined by the Arkansas Department of Education. For further requirements please see the teacher education student services website. <https://www.atu.edu/teachereducation>

<sup>3</sup>Any higher level Mathematics course may be substituted for MATH 1113 College Algebra.