

# SECONDARY EDUCATION

## MATHEMATICS 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 see [Admission and Retention to Teacher Education](#) and also the [Criteria for Internships](#) located on the College of Education home page.

### 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
USHG 1XXX U.S. History and Government <sup>1</sup>	3
MATH 1001 Orientation to Mathematics	1
MATH 2914 Calculus I	4
Elective	4
<b>Total Hours</b>	<b>15</b>

Spring	Credits
ENGL 1023 Composition II <sup>1</sup>	3
SS 1XXX Social Science Courses <sup>1</sup>	3
MATH 2703 Discrete Mathematics	3
MATH 2924 Calculus II	4
Electives	3
<b>Total Hours</b>	<b>16</b>

#### Sophomore

Fall	Credits
PHYS 2114 Calculus-Based Physics I and PHYS 2000 Physics Laboratory I	4
COMS 2803 Programming in C	3
MATH 2934 Calculus III	4
MATH 3003 Foundations of Advanced Mathematics	3
SEED 2002 Education as a Profession	2
<b>Total Hours</b>	<b>16</b>

Spring	Credits
PHYS 2124 Calculus-Based Physics II and PHYS 2010 Physics Laboratory II	4
FAH 1XXX Fine Arts and Humanities Courses <sup>1</sup>	3
ANTH 2003 Cultural Anthropology	3
MATH 3123 College Geometry	3
MATH 3243 Differential Equations I	3
<b>Total Hours</b>	<b>16</b>

**Junior**

Fall	Credits
FAH 1XXX Fine Arts and Humanities Courses <sup>1</sup>	3
COMM 2003 Public Speaking	3
STAT 3153 Applied Statistics	3
MATH 4003 Linear Algebra I	3
MATH 4113 History of Mathematics	3
<b>Total Hours</b>	<b>15</b>

Spring	Credits
MATH 3203 Introduction to Analysis	3
MATH 3703 Mathematics in the Secondary Schools	3
MATH 3772 Praxis II Mathematics: Content Knowledge Test Preparation	2
MATH 4123 Mathematical Modeling	3
SEED 3702 Introduction to Educational Technology	2
<b>Total Hours</b>	<b>13</b>

**Senior**

Fall	Credits
MATH 4033 Abstract Algebra I	3
MATH 4703 Special Methods in Mathematics	3
SEED 4054 Educating Developing, Diverse, and Exceptional Learners	4
SEED 4556 Classroom Application of Educational Psychology	6
<b>Total Hours</b>	<b>16</b>

Spring	Credits
MATH 4971 Mathematics Senior Seminar	1
SEED 4503 Seminar in Secondary Education	3
SEED 4909 Teaching in the Secondary School	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>