

# MATHEMATICS EDUCATION FOR TEACHER LICENSURE

See *the* College of Education and Health (<https://catalog.atu.edu/undergraduate/programs/education-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 (<https://catalog.atu.edu/undergraduate/programs/education-health/>) and also the Criteria for Internships (<https://catalog.atu.edu/undergraduate/programs/education-health/>) located on the College of Education home page.

## Curriculum

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

Course	Title	Hours
<b>Freshman</b>		
<b>Fall</b>		
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>Hours</b>		<b>15</b>
<b>Spring</b>		
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>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
PHYS 2114 & PHYS 2000	Calculus-Based Physics I and Physics Laboratory I	4
COMS 2803	Programming in C	3
MATH 2934	Calculus III	4
MATH 3003	Foundations of Advanced Mathematics	3
SEED 2002		2
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
PHYS 2124 & PHYS 2010	Calculus-Based Physics II and 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>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
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>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH 3203	Introduction to Analysis	3
MATH 3703	Mathematics in the Middle and Secondary Schools	3
MATH 3772		2
MATH 4123	Mathematical Modeling	3
SEED 3702		2
<b>Hours</b>		<b>13</b>
<b>Senior</b>		
<b>Fall</b>		
MATH 4033	Abstract Algebra I	3
MATH 4703	Special Methods in Mathematics	3
SEED 4054		4
SEED 4556		6
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH 4971	Mathematics Senior Seminar	1
SEED 4503	Seminar in Secondary Education	3
SEED 4909	Residency B	9
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)".

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