

MATHEMATICS EDUCATION FOR TEACHER LICENSURE, BACHELOR OF SCIENCE

Dr. Hamed Shojaei
McEver Hall, 105
(479) 968-0248
hshojaei@atu.edu

Curriculum

| Course | Title | Hours | Completed |
|--------------------------|---|-----------|-----------|
| Freshman | | | |
| Fall | | | |
| ENGL 1013 | Composition I ¹ | 3 | _____ |
| MATH 1001 | Orientation to Mathematics | 1 | _____ |
| MATH 2914 | Calculus I | 4 | _____ |
| TECH 1001 | Orientation to the University | 1 | _____ |
| USHG 1XXX | U.S. History and Government ¹ | 3 | _____ |
| Elective | | 3 | _____ |
| | Hours | 15 | |
| Spring | | | |
| COMS 1013 & COMS 1011 | Programming Foundations I and Programming Foundations I Lab | 4 | _____ |
| ENGL 1023 | Composition II ¹ | 3 | _____ |
| MATH 2703 | Discrete Mathematics | 3 | _____ |
| MATH 2924 | Calculus II | 4 | _____ |
| SS 1XXX | Social Science Courses ¹ | 3 | _____ |
| | Hours | 17 | |
| Sophomore | | | |
| Fall | | | |
| MATH 2934 | Calculus III | 4 | _____ |
| MATH 4003 | Linear Algebra I | 3 | _____ |
| PHYS 2114 & PHYS 2000 | Calculus-Based Physics I and Physics Laboratory I | 4 | _____ |
| SEED 2003 | Education as a Profession | 3 | _____ |
| Elective | | 3 | _____ |
| | Hours | 17 | |
| Spring | | | |
| ANTH 2003 | Cultural Anthropology | 3 | _____ |
| FAH 1XXX | Fine Arts and Humanities Courses ¹ | 3 | _____ |
| MATH 3123 | College Geometry | 3 | _____ |
| MATH 3243 | Differential Equations I | 3 | _____ |
| PHYS 2124 & PHYS 2010 | Calculus-Based Physics II and Physics Laboratory II | 4 | _____ |
| | Hours | 16 | |
| Junior | | | |
| Fall | | | |
| COMM 2003 | Public Speaking | 3 | _____ |
| FAH 1XXX | Fine Arts and Humanities Courses ¹ | 3 | _____ |
| MATH 3003 | Foundations of Advanced Mathematics | 3 | _____ |

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|--------------------|---|------------|-------|
| SEED 2113 | Human Development and Learning Theories | 3 | _____ |
| STAT 3153 | Applied Statistics | 3 | _____ |
| Hours | | 15 | |
| Spring | | | |
| EDMD 2013 | Integrating Instructional Technology | 3 | _____ |
| MATH 3203 | Introduction to Analysis | 3 | _____ |
| MATH 3703 | Mathematics in the Middle and Secondary Schools | 3 | _____ |
| MATH 3771 | Praxis Middle School and Secondary Mathematics Test Preparation | 1 | _____ |
| MATH 4123 | Mathematical Modeling | 3 | _____ |
| Hours | | 13 | |
| Senior | | | |
| Fall | | | |
| MATH 4033 | Abstract Algebra I | 3 | _____ |
| MATH 4113 | History of Mathematics | 3 | _____ |
| MATH 4703 | Special Methods in Mathematics | 3 | _____ |
| SEED 4553 | Classroom Application of Educational Psychology | 3 | _____ |
| SPED 4052 | Educating Diverse and Exceptional Learners | 2 | _____ |
| Hours | | 14 | |
| Spring | | | |
| MATH 4971 | Mathematics Senior Seminar | 1 | _____ |
| SEED 4503 | Seminar in Secondary Education | 3 | _____ |
| SEED 4909 | Residency B | 9 | _____ |
| Hours | | 13 | |
| Total Hours | | 120 | |

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