

BS in Mathematics Education (694620) MAP Sheet

Physical and Mathematical Sciences, Mathematics Education

For students entering the degree program during the 2022-2023 curricular year.

This major is designed to prepare students to teach mathematics in public schools. In order to graduate with this major, students are required to complete Utah State Office of Education licensing requirements. To view these requirements go to <http://education.byu.edu/ess/licensing.html> or contact the Education Advisement Center, 350 MCKB, (801) 422-3426.



University Core and Graduation Requirements	Suggested Sequence of Courses																																																																																																																																																																																																																																						
<p>University Core Requirements:</p> <table border="0"> <thead> <tr> <th style="text-align: left;">Requirements</th> <th style="text-align: center;">#Classes</th> <th style="text-align: center;">Hours</th> <th style="text-align: left;">Classes</th> </tr> </thead> <tbody> <tr> <td colspan="4">Religion Cornerstones</td> </tr> <tr> <td>Teachings and Doctrine of The Book of Mormon</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2.0</td> <td>REL A 275</td> </tr> <tr> <td>Jesus Christ and the Everlasting Gospel</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2.0</td> <td>REL A 250</td> </tr> <tr> <td>Foundations of the Restoration</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2.0</td> <td>REL C 225</td> </tr> <tr> <td>The Eternal Family</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2.0</td> <td>REL C 200</td> </tr> <tr> <td colspan="4">The Individual and Society</td> </tr> <tr> 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2022-2023 Program Requirements (78 Credit Hours)

Licensure: This program meets the educational requirements designed to lead to an occupationally required professional license or certificate in the state of Utah. Students pursuing occupations requiring a license or certificate in a state other than Utah should contact the appropriate BYU academic advisement center as well as the licensing agency in the state where they intend to work to seek information and guidance regarding licensure and certification requirements.

This major is designed to prepare students to teach in public schools. In order to graduate with this major, students are required to complete Utah State Office of Education licensing requirements. To view these requirements go to <https://www.schools.utah.gov/curr/licensing> or contact the Education Advisement Center, 350 MCKB, 801-422-3426.

For students accepted into the major after December 16, 2019, grades below C in any required coursework in a teaching major or teaching minor will not be accepted. Teacher candidates must maintain a cumulative GPA of 2.7 or higher once admitted into the program and to qualify for student teaching. For additional details on admission and retention requirements for teaching majors and teaching minors, see Educator Preparation Program Requirements in the Undergraduate Catalog.

REQUIREMENT 1 Complete 7 courses

CORE REQUIREMENTS. NOTE 1: PREREQUISITES FOR ALL MATHEMATICS EDUCATION COURSES WILL BE STRICTLY ADHERED TO. NOTE 2: FBI FINGERPRINT AND BACKGROUND CLEARANCE MUST BE COMPLETED PRIOR TO ENROLLMENT IN MTHED 276.

MTHED 177 - Critical Review of School Mathematics	3.0
MTHED 276 - Exploration of Mathematics Teaching	4.0
MTHED 277 - Task Design for Student Learning	3.0
MTHED 278 - Assessment of Student Learning	3.0
MTHED 308 - Mathematics Teaching with Technology	3.0
MTHED 377 - Mathematics Teaching in the Public Schools	3.0
MTHED 378 - Practicum in Mathematics Education	1.0

REQUIREMENT 2 Complete 11 courses

MATH 112 - Calculus 1	4.0
MATH 113 - Calculus 2	4.0
MATH 290 - Fundamentals of Mathematics	3.0
MATH 314 - Calculus of Several Variables	3.0
MATH 334 - Ordinary Differential Equations	3.0
MATH 341 - Theory of Analysis 1	3.0

MATH 371 - Abstract Algebra 1	3.0
MTHED 300 - (MthEd-Math) History and Philosophy of Mathematics	3.0
MTHED 301 - Teaching Statistics and Probability	3.0
MTHED 362 - (MthEd-Math) Survey of Geometry	3.0
STAT 121 - Principles of Statistics	3.0

REQUIREMENT 3 Complete 1 option

OPTION 3.1 Complete 1 course

MATH 313 - (Not currently offered)

OPTION 3.2 Complete 2 courses

MATH 213 - Elementary Linear Algebra	2.0
MATH 215 - Computational Linear Algebra	1.0

A teaching minor is not needed for licensure. However, students interested in teaching an academic subject in addition to mathematics should consider pursuing a teaching minor in that discipline.

REQUIREMENT 4 Complete 2 options

PROFESSIONAL EDUCATION COMPONENT:

Licensure requirements: Contact the Education Advisement Center, 350 MCKB, 801-422-3426, to schedule the final interview to clear your application for the secondary teaching license. You should be registered for your last semester at BYU prior to the scheduled appointment.

OPTION 4.1 Complete 3 courses

CPSE 402 - Educating Students with Disabilities in Secondary Classroom	2.0
*SC ED 353 - Multicultural Education for Secondary Education	3.0
SC ED 375 - Adolescent Development and Classroom Management	3.0

OPTION 4.2 Complete 12.0 hours from the following course(s)

MTHED 476 - Secondary Student Teaching in Mathematics	12.0
MTHED 496 - Academic Internship: Secondary Mathematics Educator	12.0

Student teachers/interns must complete all required EPP assessments and paperwork in the Educator system.

THE DISCIPLINE:

Mathematics is the discipline through which we make sense of the order, patterns, and quantitative situations we perceive in the world around us. The foundational skills of this discipline—the abilities to formulate, focus and solve problems; to articulate, test and justify conjectures; to communicate one’s reasoning about quantities and the relationships between them; and to see connections between different mathematical ideas and real-world contexts—are highly valued in society and are characteristics of any educated person. Mathematics is not only a body of knowledge but also a process of analysis, reasoning, comparison, deduction, generalization,

and problem solving.

Mathematics educators depend heavily upon their own understanding of mathematics in order to identify and articulate the mathematical ideas they want students to learn, to assess which concepts their students already possess that might serve as a foundation for learning, and to develop activities that help students develop rich understandings. They also use their understanding of the nature of the discipline to structure a culture of inquiry, reasoning, and problem solving in their classrooms.

Courses in the undergraduate program are designed to help prospective teachers plan, manage, and implement classroom activities that facilitate students’ learning of mathematics.

Specific program goals include (1) mastery of the foundational skills of mathematics, (2) deep reflection on mathematics learning at all levels, through observation of and participation in highquality classroom practice, (3) increased autonomy and confidence as an investigator, active learner, and productive thinker, and (4) extended field experience, informed by the best current understanding.

Program faculty include educational and mathematical researchers, specialists in both preservice and inservice teacher education, and school practitioners, spanning a broad range of interest and experience.

CAREER OPPORTUNITIES:

Within Education: Majors in mathematics education prepare for careers in molding and shaping the future minds of the world. Majors prepare for jobs high in demand teaching mathematics at the middle and high school levels. The skills learned in math education set students apart in STEM fields, and the teaching skills gained will allow them to facilitate meaningful mathematics learning. Outside the physical classroom, math education graduates can develop curriculum or educational software, and work in organizations that provide tutoring, online education, or distance learning. Graduates

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are well positioned to pursue advanced degrees in order to facilitate professional development at the district and state administration levels or to qualify to teach higher education.

Outside of Education: Majors in mathematics education graduate with a broad background in advanced mathematics and mastery of essential communication skills. Graduates who choose to forego the traditional teaching route have found rewarding careers in business, computer programming, information technology, operations research, cryptography, finance and more. Not only are mathematics education graduates prepared to solve problems in these fields using their mathematical background, but the teaching experiences prepare them to be highly effective in communicating solutions to others.

MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

DEPARTMENT INFORMATION

FACULTY ADVISOR:

Amy Tanner
187 TMCB
Brigham Young University, Provo, UT 84602
Telephone: (801) 422-3640

ADVISEMENT CENTER INFORMATION

Physical and Mathematical Sciences College Advisement Center

Brigham Young University
N-181 ESC
Provo, UT 84602
Telephone: (801) 422-2674