### University Core and Graduation Requirements

#### University Core Requirements:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religion Cornerstones</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Teachings and Doctrine of The Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
</tr>
<tr>
<td>- Jesus Christ and the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>REL A 250</td>
</tr>
<tr>
<td>- Foundations of the Restoration</td>
<td>1</td>
<td>2.0</td>
<td>REL C 225</td>
</tr>
<tr>
<td>- The Eternal Family</td>
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<td>2.0</td>
<td>REL C 200</td>
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<tr>
<td>The Individual and Society</td>
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<td></td>
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</tr>
<tr>
<td>- American Heritage</td>
<td>1-2</td>
<td>3-6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Global and Cultural Awareness</td>
<td>1</td>
<td>2.0</td>
<td>SC ED 353*</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- First Year Writing</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Advanced Written and Oral Communications</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Quantitative Reasoning</td>
<td>1</td>
<td>4.0</td>
<td>MATH 112* or 113*</td>
</tr>
<tr>
<td>- Languages of Learning (Math or Language)</td>
<td>1</td>
<td>4.0</td>
<td>MATH 112* or 113*</td>
</tr>
<tr>
<td>Arts, Letters, and Sciences</td>
<td></td>
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</tr>
<tr>
<td>- Civilization 1</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Civilization 2</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Arts</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Letters</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Biological Science</td>
<td>1</td>
<td>3-4.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Physical Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Social Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Religion Electives</td>
<td>3-4</td>
<td>6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Open Electives</td>
<td>Variable</td>
<td></td>
<td>Variable personal choice</td>
</tr>
</tbody>
</table>

*These classes can fill both university core and program requirements (11 hours overlap)*

#### Graduation Requirements:

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0

### Suggested Sequence of Courses

**FRESHMAN YEAR**

1st Semester
- First-year Writing: 3.0
- MATH 112: 4.0
- Religion Cornerstone course: 3.0
- Biological Science: 3.0
- Letters: 3.0
- Total Hours: 15.0

2nd Semester
- American Heritage: 3.0
- MATH 113: 4.0
- MATH 290: 3.0
- Religion Cornerstone course: 2.0
- Social Science: 3.0
- Total Hours: 15.0

**SOPHOMORE YEAR**

3rd Semester
- MATH 313: 3.0
- MTHED 177: 3.0
- STAT 121: 3.0
- Civilization 1: 3.0
- Religion Cornerstone course: 2.0
- Arts: 3.0
- Total Hours: 17.0

4th Semester
- MATH 314: 3.0
- MATH 371: 3.0
- MTHED 276: 4.0
- Religion Cornerstone course: 2.0
- Physical Science: 3.0
- Total Hours: 15.0

**JUNIOR YEAR**

5th Semester
- MATH 341: 3.0
- MTHED 362: 3.0
- Religious Science course: 3.0
- SC ED 353: 2.0
- Religion Elective: 2.0
- Total Hours: 16.0

6th Semester
- CPSE 402: 2.0
- MATH 334: 3.0
- MTHED 301: 3.0
- MTHED 308: 3.0
- Total Hours: 16.0

**SENIOR YEAR**

7th Semester
- MTHED 300: 3.0
- MATH 355, 450, or 487: 3.0
- MTHED 377: 3.0
- MTHED 378: 1.0
- SC ED 375: 3.0
- Religion Elective: 2.0
- Total Hours: 15.0

8th Semester
- MTHED 476 or MTHED 496: 12.0
- Total Hours: 12.0

**Note:** Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

**Note 2:** The sequence of courses suggested may not fit the circumstances of every student. Students should contact their college advisement center for help in outlining an efficient schedule.
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 http://education.byu.edu/ess/licensing.html or contact Education Student Services, 350 MCKB, (801) 422-3426.

For students accepted into the major after August 1, 2014, grades below C in any required coursework in a teaching major or teaching minor will not be accepted. Teacher candidates must maintain a total GPA of 3.0 or higher throughout the program and to qualify for student teaching. For details on admission and retention requirements for teaching majors and teaching minors, see Educator Preparation Program (EPP) Requirements.

**REQUIREMENT 1** Complete 6 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 and Assessment of Student Understanding 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 12 courses

- MATH 112 - Calculus 1 4.0
- MATH 113 - Calculus 2 4.0
- MATH 290 - Fundamentals of Mathematics 3.0
- MATH 313 - Elementary Linear Algebra 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
- MATH 300 - (Math-MthEd) History and Philosophy of Mathematics 3.0
- MTHED 301 - Teaching Statistics and Probability 3.0
- MATH 362 - (Math-MthEd) Survey of Geometry 3.0
- STAT 121 - Principles of Statistics 3.0

**REQUIREMENT 3** Complete 1 course

- MATH 355 - Graph Theory 3.0
- MATH 450 - Combinatorics 3.0
- MATH 487 - Number Theory 3.0

**REQUIREMENT 4** Complete 2 options

**PROFESSIONAL EDUCATION COMPONENT:**

- **Licensure requirements:** Contact Education Student Services, 350 MCKB, 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 1.1** Complete 3 courses

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

**OPTION 1.2** Complete 12.0 hours from the following course(s)

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

Student teachers/interns must complete the PIBS form, sign both the mentor’s and university supervisor’s MyLink forms, and attach their TWS to their MyLink account. All three must be completed to be cleared for graduation.

**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—analysis, reasoning, comparison, deduction, generalization, and problem solving—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.

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.

**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