### 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>
<td>1</td>
<td>2.0</td>
<td>REL C 200</td>
</tr>
<tr>
<td>The Individual and Society</td>
<td></td>
<td></td>
<td></td>
</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>3.0</td>
<td>SC ED 353*</td>
</tr>
<tr>
<td>Skills</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>0-1</td>
<td>0-3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1-4</td>
<td>3-20.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts, Letters, and Sciences</td>
<td></td>
<td></td>
<td></td>
</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>PHIL 423*</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>2</td>
<td>7.0</td>
<td>CHEM 105* &amp; PHSCS 105*</td>
</tr>
<tr>
<td>Social Science</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Core Enrichment: Electives</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>Variable</td>
<td>personal choice</td>
</tr>
</tbody>
</table>

#### 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
  - Quantitative Reasoning: 3.0
  - PHSCS 105: 3.0
  - PHSCS 107: 1.0
  - Religion Cornerstone course: 2.0
  - Total Hours: 15.0

- **2nd Semester**
  - American Heritage: 3.0
  - Biological Science: 3.0
  - PHSCS 106 (FWSu): 3.0
  - PHSCS 108 (FWSu): 1.0
  - Religion Cornerstone course: 2.0
  - Languages of Learning: 3.4.0
  - Total Hours: 15-16.0

#### SOPHOMORE YEAR

- **3rd Semester**
  - CHEM 105 (FWSpSu): 4.0
  - CHEM 106 (FWSpSu): 3.0
  - PHSCS 127 (FWSpSu): 3.0
  - Civilization 1: 3.0
  - Religion Cornerstone course: 2.0
  - Total Hours: 16.0

- **4th Semester**
  - CHEM 106 (FWSpSu): 3.0
  - CHEM 107 (FWSpSu): 1.0
  - GEOL 112 (W): 4.0
  - Civilization 2 & Arts: 3.0
  - PHY S 276: 4.0
  - Religion elective (FWSpSu): 2.0
  - Total Hours: 17.0

#### JUNIOR YEAR

- **5th Semester**
  - CHEM 223 (FSp): 4.0
  - CHEM 201 (FSp): 0.5
  - CPSE 402: 2.0
  - PHSCS 137: 3.0
  - Religion Cornerstone course: 2.0
  - SC ED 353: 3.0
  - Total Hours: 17.5

- **6th Semester**
  - Geol 210 Begins meeting before the start of fall semester
  - CHEM 310: 3.0
  - CHEM 331: 3.0
  - CHEM 167: 3.0
  - Adv. Written & Oral Communication: 3.0
  - Religion elective (FWSpSu): 2.0
  - IP & T 371: 1.0
  - IP & T 372: 1.0
  - IP & T 373: 1.0
  - Total Hours: 17.0

#### SENIOR YEAR

- **7th Semester**
  - CHEM 310: 3.0
  - CHEM 331: 3.0
  - CHEM 167: 3.0
  - Adv. Written & Oral Communication: 3.0
  - Religion elective (FWSpSu): 2.0
  - IP & T 371: 1.0
  - IP & T 372: 1.0
  - IP & T 373: 1.0
  - Total Hours: 17.0

- **8th Semester**
  - PHY S 476 or 496 (FW): 12.0
  - Total Hours: 22.0

Note: 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.

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.
**BS in Physical Science Education (690128)**

**2022-2023 Program Requirements (80.5 - 81.5 Credit Hours)**

<table>
<thead>
<tr>
<th>Requirement 1</th>
<th>Complete 17 courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>3.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**THE DISCIPLINE:**

The Department of Teacher Education provides a program that licenses secondary teachers for public schools. In addition to content courses in the field(s) in which they plan to teach, students complete professional education courses and practicum experiences that prepare them to teach in a secondary school setting.

**CAREER OPPORTUNITIES:**

Secondary education teacher.

**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.

**ADVICEMENT CENTER INFORMATION**

Physical and Mathematical Sciences College Advisement Center
Brigham Young University
N-181 ESC
Provo, UT 84602
Telephone: (801) 422-2674

---

**Requirements in the Undergraduate Catalog.**

**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 licensure requirements. To view these requirements go to [https://www.schools.utah.gov/curr/licensing](https://www.schools.utah.gov/curr/licensing) or contact the State Office of Education licensing requirements. To view these requirements go to [https://www.schools.utah.gov/curr/licensing](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 2 Complete 1 course**

- PHSCS 167 - Descriptive Acoustics of Music and Speech
- PHSCS 310 - Physics by Inquiry: Mechanics

**REQUIREMENT 2 Complete 1 course**

- GEOL 100 - Dinosaurs
- GEOL 351 - Mineralogy
- GEOL 370 - Sedimentology and Stratigraphy
- GEOL 480 - Paleontology
- *PHIL 423R - History and Philosophy of Science

**REQUIREMENT 3 Complete 2 options**

**PROFESSIONAL EDUCATION COMPONENT:**

Licensure requirements: Contact the Education Advisement Center, 350 MCKB, 801-422-3426, to schedule the exit 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 3.1 Complete 9 courses**

- CPSE 402 - Educating Students with Disabilities in Secondary Classroom
- IP&T 371 - Integrating K-12 Educational Technology 1
- IP&T 372 - Integrating K-12 Educational Technology 2
- IP&T 373 - Teaching in K-12 Online and Blended Learning Contexts
- PHYS 276 - Exploration of Teaching
- PHYS 377 - Teaching Methods and Instruction
- PHYS 378 - Practicum in Secondary Education
- SC ED 353 - Multicultural Education for Secondary Education
- SC ED 375 - Adolescent Development and Classroom Management

Note: FBI fingerprint and background clearance must be completed prior to enrollment in Phys 376.

**OPTION 3.2 Complete 12.0 hours from the following course(s)**

- APPLY FOR STUDENT TEACHING/INTERNSHIP ONE SEMESTER IN ADVANCE BY SEPTEMBER 30 OR JANUARY 31ST. APPLICATIONS ARE ONLINE AT WWW.BYU.EDU/FIELDSERVICES.HTML.
- PHYS 476 - Secondary Student Teaching
- PHYS 496 - Academic Internship: Secondary Education

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

**NOTE FOR GEOL 210: CONTACT GEOLOGICAL SCIENCES DEPARTMENT (S-389 ESC) BEFORE APRIL 15TH FOR DATES OF UPCOMING AUGUST FIELD TRIP.**

**ESC**

**APPLICATIONS ARE ONLINE AT WWW.BYU.EDU/FIELDSERVICES.HTML.**

**ADVISEMENT CENTER INFORMATION**

Physical and Mathematical Sciences College Advisement Center
Brigham Young University
N-181 ESC
Provo, UT 84602
Telephone: (801) 422-2674