## 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>
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<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>
<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>ENG T 231*</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>1</td>
<td>3.0</td>
<td>MATH 110*</td>
</tr>
<tr>
<td>- Languages of Learning (Math or Language)</td>
<td>1</td>
<td>3-4.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Arts, Letters, and Sciences</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>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Arts</td>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>- Letters</td>
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<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>ENG T 231*</td>
</tr>
<tr>
<td>Core Enrichment: Electives</td>
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<tr>
<td>- Religion Electives</td>
<td>3-4</td>
<td>6.0</td>
<td>from approved list</td>
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<tr>
<td>- Open Electives</td>
<td>Variable</td>
<td></td>
<td>2 personal choice</td>
</tr>
</tbody>
</table>

### Graduation Requirements:

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

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### Suggested Sequence of Courses

#### FRESHMAN YEAR

**1st Semester**
- TES 276 A: 3.5
- TES 276 B: 0.5
- TES 200: 3.0
- American Heritage or First-Year Writing: 3.0
- Physical Science: 3.0
- Religion Cornerstone Course: 2.0
- TES 291R: 0.5
**Total Hours:** 15.5

**2nd Semester**
- CE EN 112 or CFM 105: 3.0
- MATH 110: 3.0
- TES 225: 3.0
- American Heritage or First-Year Writing: 3.0
- Religion Cornerstone Course: 2.0
- General Elective: 2.0
**Total Hours:** 16.0

#### SOPHOMORE YEAR

**3rd Semester**
- TES 125: 3.0
- CS 142: 3.0
- TES 225: 3.0
- TES 340: 3.0
- Religion Cornerstone Course: 0.5
- TECH 112: 1.0
**Total Hours:** 15.5

**4th Semester**
- TES 255: 3.0
- TES 330: 3.0
- TES 291R: 0.5
- Biological Science: 3.0
- Religion Cornerstone Course: 2.0
- Languages of Learning: 3.0
**Total Hours:** 14.5

#### JUNIOR YEAR

**5th Semester**
- Advance Written & Oral Communication: 3.0
- ENG T 231: 3.0
- Civilization I: 3.0
- Technical Elective: 3.0
- TES 291R: 0.5
**Total Hours:** 14.5

**6th Semester**
- Civilization II & Arts or Letters: 3.0
- Arts or Letters: 3.0
- Technical Elective: 3.0
- TES 291R: 0.5
**Total Hours:** 14.5

#### SENIOR YEAR

**7th Semester**
- Religion Elective: 2.0
- TES Technical Elective: 1.0
- TES Technical Elective: 3.0
**Total Hours:** 15.0

**8th Semester**
- TES Technical Elective: 3.0
- TES Technical Elective: 3.0
- TES Technical Elective: 3.0
**Total Hours:** 15.0

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Note: Students are encouraged to complete an average of 15–16 credit hours each semester or 30–32 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.
**REQUIREMENT 1** Complete 3 options

**OPTION 1.1** Complete 1 course
- CE EN 112 - Engineering Drafting with CAD Applications 3.0
- CFM 105 - Introduction to Construction and Facilities Management 3.0

**OPTION 1.2** Complete 1 course
- MATH 110 - College Algebra 3.0
- MATH 111 - Trigonometry 2.0

**OPTION 1.3** Complete 13 courses

**NOTE:** FINGERPRINTING AND FBI CLEARANCE MUST BE COMPLETED PRIOR TO ENROLLING IN TES 276A, B.

**OPTION 2** Complete 6 courses

**COMPLETE SIX REGISTRATIONS OF THE FOLLOWING (EXCEPT IF ENROLLED IN TES 476):**
- TES 291R - Undergraduate Seminar 0.5

**REQUIREMENT 3**

**TECHNICAL EMPHASIS ELECTIVES:**
- Complete 34 hours from one or more of the following areas: engineering (courses from engineering departments); technology (courses from the School of Technology); graphic design and multimedia (courses from Digital Humanities, Design, Communications); computer programming (courses from Computer Science department); business management, entrepreneurship, marketing (courses from Business Management department); non-core TES courses; or other courses with TES faculty approval. Additional hours of internship (TES 399R) may be taken beyond the required three (3) credits in Requirement 1, up to a maximum of 6 credits total (3 credits from Requirement 1 and up to 3 credits in Requirement 3). For specific courses, please visit www.et.byu.edu/tte or contact the School of Technology advisement center in 250 SNLB.

**REQUIREMENT 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>TES 291R</td>
<td>Undergraduate Seminar</td>
</tr>
<tr>
<td>TES 276A</td>
<td>Exploration of Teaching A</td>
</tr>
<tr>
<td>TES 276B</td>
<td>Exploration of Teaching B</td>
</tr>
<tr>
<td>TES 330</td>
<td>Creativity, Engineering, and Problem Solving</td>
</tr>
<tr>
<td>TES 340</td>
<td>Principles of Technology and Engineering</td>
</tr>
<tr>
<td>TES 399R</td>
<td>Academic Internship</td>
</tr>
</tbody>
</table>

**THE DISCIPLINE:**

Students graduating from the technology and engineering studies program at Brigham Young University are prepared to engage in a breadth of technology and engineering-related careers, become creators and builders of technology, pursue additional education through graduate studies, and provide technical training in industrial settings.

Students in the program are required to take core courses in visual communications, production technologies, and the engineering design process. In addition, students will complete a series of depth courses designed to provide a conceptual understanding of engineering and technological systems, experiences in creativity and design, technological expertise, and pedagogy. Finally, students are provided with field-based experiences including internships for TES general majors and a semester-long supervised student teaching experience for those pursuing teaching licensure.

**ACADEMIC QUALITY:**

- **Facilities** - The department offers some of the most advanced and innovative technology education laboratories in the nation. Facilities in drafting, metalwork, woodworking, and multi-media are also comparable with the best in the nation.
- **CAREER OPPORTUNITIES:**
  - The department has 3 faculty members with a depth of special activities during the year, including workshops in technology education for teachers and administrators in secondary schools, colleges, and universities.
  - The department has an interdisciplinary approach to the study of technology, combining engineering and technological systems, computer science, mathematics, and communication technologies.

**FINANCING:**

Scholarships are available. Also a number of upperdivision students are hired as laboratory assistants and teaching assistants.

**CAREER OPPORTUNITIES:**

- The dramatic pace of technological innovation makes this a vital major. The current need for STEM professionals is excellent both in industry and in teaching. The degree provides a strong foundation for numerous technical and teaching-related careers, including corporate, grades 6-12, and higher education.

**Career Options for TES Graduates**

- Industry/Technical Training
- Graduate Studies including law school, business school, and medical school
- Business & entrepreneurship with a technical/engineering emphasis.
- Various Technical Industries

**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**

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