BS in TECHNOLOGY AND ENGINEERING EDUCATION (396547) MAP Sheet
School of Technology
For students entering the degree program during the 2012–2013 curricular year.

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, 120 MCKB, (801) 422-3426.

### 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><strong>Doctrinal Foundation</strong></td>
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<tr>
<td>Book of Mormon</td>
<td>2</td>
<td>4.0</td>
<td>Rel A 121/H and 122/H</td>
</tr>
<tr>
<td>New Testament</td>
<td>1</td>
<td>2.0</td>
<td>Rel A 211/H or 212/H</td>
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<tr>
<td>Doctrine and Covenants</td>
<td>1</td>
<td>2.0</td>
<td>Rel C 324/H or 325/H</td>
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<tr>
<td><strong>The Individual and Society</strong></td>
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<tr>
<td>Citizenship</td>
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<tr>
<td>American Heritage</td>
<td>1–2</td>
<td>3–6.0</td>
<td>from approved list</td>
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<tr>
<td>Global &amp; Cultural Awareness</td>
<td>1</td>
<td>3.0</td>
<td>Sc Ed 353*</td>
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<tr>
<td><strong>Skills</strong></td>
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<tr>
<td>Effective Communication</td>
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<tr>
<td>First-Year Writing</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
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<tr>
<td>Adv Written &amp; Oral Communication</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
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<tr>
<td>Quantitative Reasoning</td>
<td>1</td>
<td>2–3.0</td>
<td>Math 110* or 111*</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1–4</td>
<td>3–20.0</td>
<td>from approved lists</td>
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<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
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<td></td>
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<tr>
<td>Civilization 1 and 2</td>
<td>2</td>
<td>6.0</td>
<td>from approved list</td>
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<tr>
<td>Arts</td>
<td>1</td>
<td>3.0</td>
<td>ArthHC 202 or Hum 202 or Tech 202 recommended</td>
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<tr>
<td>Letters</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>
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<tr>
<td>Religious Electives</td>
<td>1–2</td>
<td>3–5.0</td>
<td>from approved list</td>
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<tr>
<td>Biological Science</td>
<td>1–2</td>
<td>3–7.0</td>
<td>from approved list</td>
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<tr>
<td>Social Science</td>
<td>1</td>
<td>3.0</td>
<td>TEE 360*</td>
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</tbody>
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#### PROGRAM REQUIREMENTS (76–77 total hours including licensure)

<table>
<thead>
<tr>
<th>Classes</th>
<th>Hours</th>
<th>Classes</th>
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<tbody>
<tr>
<td>Complete the following courses:</td>
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<tr>
<td>CE En 112 Engineering Drafting with CAD</td>
<td>3.0</td>
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<tr>
<td>Eng T 231 Foundations of Global Leadership</td>
<td>3.0</td>
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<tr>
<td>Tech 213 Innovation Lab</td>
<td>1.0</td>
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<tr>
<td>TEE 125 Technological Systems 1</td>
<td>3.0</td>
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<tr>
<td>TEE 200 Studio Methods in Prototyping</td>
<td>3.0</td>
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<tr>
<td>TEE 225 Technological Systems 2</td>
<td>3.0</td>
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<tr>
<td>TEE 229 Material Properties &amp; Processes</td>
<td>3.0</td>
<td></td>
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<tr>
<td>TEE 255 Visual Communication Design</td>
<td>3.0</td>
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<tr>
<td>TEE 330 Creativity, Engineering &amp; Problem Solv</td>
<td>3.0</td>
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<tr>
<td>TEE 340 Princ. of Technology &amp; Engineering</td>
<td>3.0</td>
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<tr>
<td>TEE 360* Standards for Technological Literacy</td>
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Complete 14 hours from one or more of the following areas:
- Graphic design and multimedia
- Engineering prep and electronics
- Construction systems
- Information technology
- Architecture and furniture design
- Manufacturing
- Computer science
- Trade and technical

For specific courses, please visit www.et.byu.edu/tte or contact the School of Technology advisement center in 250 SNLB.

Complete four registrations of the following (except when enrolled in TEE 476R):
- TEE 291R Undergraduate Seminar 0.5

Complete one course from the following:
- Math 110* College Algebra 3.0
- Math 111* Trigonometry 2.0

Complete the Professional Education Component:
- Licensure requirements:
  - Contact the Education Advisement Center, 120 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.

Complete the following:
- CPSE 402 Educating Students with Disabilities 2.0
- Sc Ed 350 Adolescent Development 2.0
- Sc Ed 353* Multicultural Education 2.0
- Sc Ed 379 Classroom Management 1.0
- TEE 276A Exploration of Teaching A 2.0
- TEE 276B Exploration of Teaching B 2.0
- TEE 377 Teaching Methods in Technology Educ. 2.0
- TEE 378 Practicum in Technology Education 2.0

Note: FBI fingerprint and background clearance must be completed prior to enrollment in TEE 276R.

Complete 12 hours of the following:
- TEE 476 Secondary Student-Teaching Internship 12.0

Complete department packet and exit interview.

### GRADUATION REQUIREMENTS

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

FOR UNIVERSITY CORE QUESTIONS CONTACT THE ADVISEMENT CENTER

FOR PROGRAM QUESTIONS SEE YOUR ADVISOR IN 250 SNLB

*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (8–9.0 hours overlap)
BS in Technology and Engineering Education (396547)
2012–2013

Suggested Sequence of Courses:

FRESHMAN YEAR
1st Semester
Rel A 121 (FWSpSu) 2.0
Tee 125 3.0
Tee 200 3.0
Tee 225 3.0
Tee 291R 0.5
First-Year Writing or A Htg 3.0
Total Hours 14.5
2nd Semester
First-Year Writing or A Htg 3.0
CE En 112 3.0
Math 110 or 111 2-3.0
Tee 229 3.0
Tee 291R (W) 0.5
Rel A 122 (FWSpSu) 2.0
Religion elective 2.0
Total Hours 15.5-16.5

SOPHOMORE YEAR
3rd Semester
Eng T 231 3.0
Rel A 211 or 212 (FWSpSu) 2.0
Phy S 100 3.0
Tee 276A 2.0
Tee 291R 0.5
Tee 340 3.0
Total Hours 15.5
4th Semester
Rel A 324 or 325 2.0
Bio 100 3.0
Tee 265 3.0
Tee 291R 0.5
Tee 330 3.0
Sc Ed 350 2.0
Advanced Writing 3.0
Total Hours 16.5

JUNIOR YEAR
5th Semester
Civilization T (Tech 201 recommended) 3.0
Languages of Learning 3.0
Letters elective 3.0
Religion elective 2.0
Sc Ed 353 2.0
Tee 360 3.0
Total Hours 16.0
6th Semester
Civilization 2 & Arts (Tech 202 recommended) 3.0
TEE 377 (W) 2.0
TEE 378 2.0
CPSE 402 2.0
Tech 213 1.0
Technical elective 3.0
General elective 3.0
Total Hours 16.0

SENIOR YEAR
7th Semester
Sc Ed 379 1.0
Technical elective 3.0
Technical elective 3.0
Technical elective 3.0
Technical elective 2.0
Religion elective 2.0
Total Hours 14.0
8th Semester
TEE 476 12.0
Total Hours 12.0

THE DISCIPLINE:
Students graduating from the technology and engineering education program at Brigham Young University are prepared to teach in secondary schools. Students in the program are required to take courses in visual communications, production technologies, and engineering design. Students will need to complete 18 hours of technical emphasis in one or two depth areas: graphic design and multimedia, engineering prep and electronics, construction systems, information technology, architecture and furniture design, manufacturing, computer science, and trade and technical. In addition, students are required to complete teacher education courses. Finally, students are provided with field-based experiences to teach at the middle and high school levels throughout the program, culminating with a semester-long supervised student teaching experience.

ACADEMIC QUALITY:
Facilities - The department offers some of the most advanced and innovative technology education laboratories in the nation. Facilities in drafting, metalwork, woodwork, and multi-media are also comparable with the best in the nation.

Special programs - The department hosts a variety of special activities during the year, including workshops in technology education for teachers and administrators in secondary schools, colleges, and universities.

Faculty expertise - The department has 4 faculty members with a wide range of interests and expertise. Because of the broad scope of the program, it incorporates coursework from other disciplines and integrates the expertise of University faculty.

Graduating majors commonly comment that the faculty are friendly and have personal interest in them as students and offer excellent program advisement. The faculty are involved in writing for professional journals and in making presentations at regional and national conventions.

THE EXPERIENCE:
Pre-professional training - Student teaching for careers in education.

PROFESSIONAL AND HONOR SOCIETIES:
Student chapter of Vocational Industrial Clubs of America (VICA) and Technology Education Collegiate Association (TECA).

STUDENT TEACHING:
Students are provided an opportunity to improve their teaching skills through a student teaching experience in the public secondary schools.

FINANCING:
Scholarships are available. Also a number of upper-division students are hired as laboratory assistants and teaching assistants.

CAREER OPPORTUNITIES:
The dramatic pace of technological innovation makes this a vital major – one that aims to improve the rising generation’s technological literacy and increase their awareness of the development of technology and its impact on individuals, society, and the environment. The current need for teachers is far greater than the available graduates resulting in excellent job placement. Most graduates teach technology-related subjects at the middle and high school level. A Master's of Science degree is offered within the department.

GRADUATE SCHOOL:
Graduate 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.