



BS in TECHNOLOGY AND ENGINEERING EDUCATION (396547) MAP Sheet

School of Technology

For students entering the degree program during the 2016–2017 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				PROGRAM REQUIREMENTS (76–77 total hours including licensure)	
UNIVERSITY CORE REQUIREMENTS				<p>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.</p> <p>Complete one course from the following: CE En 112 Engineering Drafting with CAD 3.0 CFM 105 Intro to Const & Facilities Management 3.0</p> <p>Complete the following core courses: Eng T 231* Foundations of Global Leadership 3.0 Tech 312 Innovation 1.0 TEE 125 Communication Tech Systems 3.0 TEE 200 Processes & Prototyping with Wood 3.0 TEE 225 Electronics for T & E Teachers 3.0 TEE 229 Material Properties & Processes 3.0 TEE 255 Visual Communication Design 3.0 TEE 330 Creativity, Engineering & Problem Solv 3.0 TEE 340 Princ. of Technology & Engineering 3.0 TEE 360* Standards for Technological Literacy 3.0</p> <p>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</p> <p>For specific courses, please visit www.et.byu.edu/tte or contact the School of Technology advisement center in 250 SNLB.</p>	
Requirements	#Classes	Hours	Classes		
Religion Cornerstones					
Teachings and Doctrine, Book of Mormon	1	2.0	Rel A 275		
Jesus Christ & the Everlasting Gospel	1	2.0	Rel A 250		
Foundations of the Restoration	1	2.0	Rel C 225		
The Eternal Family	1	2.0	Rel C 200		
The Individual and Society					
Citizenship					
American Heritage	1–2	3–6.0	from approved list		
Global & Cultural Awareness	1	3.0	Sc Ed 353* or Eng T 231*		
Skills					
Effective Communication					
First-Year Writing	1	3.0	from approved list		
Adv Written & Oral Communication	1	3.0	from approved list		
Quantitative Reasoning	1	2–3.0	Math 110* or 111*		
Languages of Learning (Math or Language)	1–4	3–20.0	from approved lists		
Arts, Letters, and Sciences					
Civilization 1 and 2	2	6.0	from approved list		
Arts	1	3.0	ArtHC 202 or Hum 202 or Tech 202 recommended		
Letters	1	3.0	from approved list		
Scientific Principles & Reasoning					
Biological Science	1–2	3–5.0	from approved list		
Physical Science	1–2	3–7.0	from approved list		
Social Science	1	3.0	TEE 360* or Eng T 231*		
Core Enrichment: Electives					
Religion Electives	3–4	6.0	from approved list		
Open Electives	Variable	Variable	personal choice		
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 hours overlap)

BS in Technology and Engineering Education (396547) 2016–2017

Suggested Sequence of Courses:

FRESHMAN YEAR

<u>1st Semester</u>	
Religion Cornerstone course	2.0
TEE 200	3.0
TEE 225	3.0
TEE 276A & B	4.0
TEE 291R	0.5
First-Year Writing or A Htg	3.0
Total Hours	15.5

2nd Semester

First-year Writing or A Htg	3.0
CE En 112 or CFM 105	3.0
Math 110 or 111	2-3.0
TEE 229	3.0
TEE 291R (W)	0.5
Religion Cornerstone course	2.0
Religion elective	2.0
Total Hours	15.5-16.5

SOPHOMORE YEAR

<u>3rd Semester</u>	
Bio 100	3.0
Religion Cornerstone course	2.0
TEE 125	3.0
TEE 225	3.0
TEE 291R	0.5
TEE 340	3.0
Total Hours	14.5

4th Semester

Religion Cornerstone course	2.0
Eng T 231	3.0
TEE 255	3.0
TEE 291R	0.5
TEE 330	3.0
Advanced Writing	3.0
Total Hours	14.5

JUNIOR YEAR

<u>5th Semester</u>	
Civilization 1 (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 312	1.0
Technical elective	3.0
General elective	3.0
Total Hours	16.0

SENIOR YEAR

<u>7th Semester</u>	
Sc Ed 375	3.0
Technical elective	3.0
Technical elective	3.0
Technical elective	3.0
Technical elective	2.0
Religion elective	2.0
Total Hours	16.0

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 14 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 3 faculty members with a wide range of interests and expertise. Because of the broad scope of the program, it incorporates course work 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. The degree also provides an excellent foundation for numerous technical careers and teaching opportunities in corporate or higher education.

GRADUATE SCHOOL:

There will be an increasing need for technology educators at all levels. A Master's of Science degree is offered within the department.

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.

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