DEGREE

BACHELOR OF SCIENCE IN EDUCATION (B.S.E.)
TECHNOLOGY & ENGINEERING EDUCATION

The Technology & Engineering Education program (TECE) is a teacher training program for individuals who desire to teach a broad range of courses in K-12 technology & engineering education. The 4-year program is comprised of general education courses to support a liberal arts foundation, technical courses to build content knowledge, and professional courses that immerse students in field experiences with K-12 students, including a full-time student teaching semester.

- An optional Engineering Design Education concentration is also available to build deeper understanding and expertise for STEM (science, technology, engineering, & math) education.

Gradsutes are eligible for Pennsylvania teacher certification in Technology Education which enables them to teach all courses in this content area such as computer-aided drafting and design (CADD), graphic communication, manufacturing and materials, STEM, engineering design, construction, energy and power, transportation, electronics, automation/robotics, and much more. Many states have reciprocity with Pennsylvania, which generally enables graduates to apply for certification there once they have the PA certification.

Top 3 Reasons to choose Technology & Engineering Education

AT MILLERSVILLE UNIVERSITY

1. Job prospects for Technology & Engineering Education teachers are exceptional, with more positions offered than there are graduates to fill them.

2. Teachers make a difference. A good Technology & Engineering Education teacher can positively influence hundreds or thousands of students in a lifetime.

3. Technology & Engineering Education teachers work in a creative and dynamic learning environment with abundant opportunities to solve problems, build solutions, and inspire others.
CLUBS & ACTIVITIES

- Technology & Engineering Education Collegiate Association at Millersville University (TEECA @ MU). TEECA members engage in a wide variety of social, professional, service, and fund-raising events. Members participate in the Eastern Regional TEECA Conference every November in Virginia Beach, VA plus another National conference at a different U.S. location each spring.

- Epsilon Pi Tau (EPT) – Beta Phi Chapter. EPT is an international honor society for professions in technology, which includes Technology & Engineering Education. There are a number of benefits to membership, including opportunities for awards based on achievements or service.

- Other Organizations. TECE students can choose to join other organizations in AEST, including the Society for Manufacturing Engineers (SME), Marauder Graphics Club, Submersible Research Team, and Association of Technology, Management & Applied Engineering (MU Robotics Club).

FACILITIES

Technology & Engineering education students have the advantage of taking hands-on classes in more than ten different laboratories in Osburn Hall, including graphic communication, materials/production, energy & power, electronics, automation, CADD, and others. There is also an integrative STEM lab, innovation lab, and seminar classroom where teacher candidates engage in design, problem-solving, and teaching methods courses.

EXPERIENCE & SUCCESS

Students majoring in Technology & Engineering Education have many opportunities to engage with students in K-12 classrooms throughout our teacher preparation program. In addition to required field experiences and student teaching, some students choose to participate in other teaching-related programs through local community organizations and after-school programming. These experiences help to build students’ confidence and expertise in preparation for their teaching career.

Jana Zinn Bonds (Class of 2008)
Jana says, “It is never a dull moment with middle school students and it is a joy to see the excitement they get from discovering the world of technology and engineering.” Jana teaches 6th-8th grade Technology & Engineering at Emory H. Markle Intermediate in the South Western School District. Her curriculum covers a broad range of topics including materials processing, energy conservation, robotics, engineering design, manufacturing, and digital media. Jana stays active by serving as a Technology Student Association (TSA) advisor and her school won the Program of Excellence award in 2011-2012.

FOR INFORMATION CONTACT:
Department of Applied Engineering, Safety & Technology
P.O. Box 1002 • Millersville, PA 17551
www.millersville.edu/aest
AEST@millersville.edu
717-871-7237