

TECHNOLOGY & ENGINEERING EDUCATION



"I attribute my success largely to my experience at Millersville University and the professors who helped me develop and pursue my passion."
—Korbin, program graduate

There is currently a shortage of technology & engineering education teachers in many states, which means there are exceptional job opportunities for Technology & Engineering Education graduates. Make a difference with your career choice. Choose this major if you enjoy problem-solving, learning by doing, and inspiring others.

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.

Graduates 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 teachers are exceptional.** There are more positions offered than there are graduates to fill them.
2. **Teachers make a difference.** A good Technology & Engineering teacher can positively influence hundreds or thousands of students in a lifetime.
3. **Technology & Engineering teachers work in a creative and dynamic learning environment.** There are abundant opportunities to solve problems, build solutions, and inspire others.

Watch this Video for Details <http://tinyurl.com/TECE-MU>



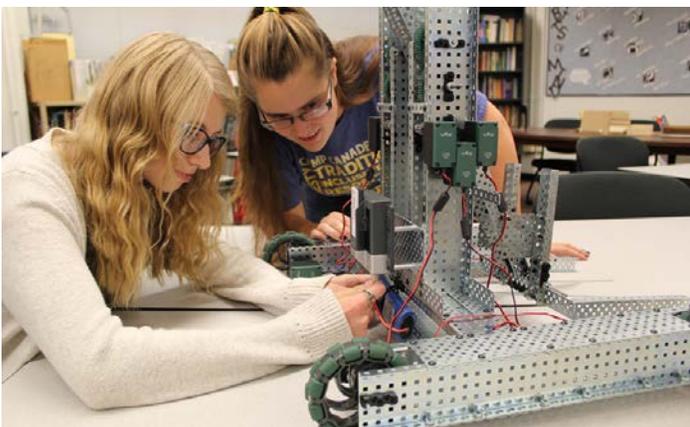


CLUBS & ACTIVITIES

- **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.



Students and faculty advisors at the TEECA Competition in Virginia Beach.

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.



Korbin Shoemaker (Class of 2011)
Korbin has been teaching at Walkersville Middle School in Frederick County Public Schools (Maryland) since 2012. In addition to teaching a 7th grade *Inventions and Innovation* course, he serves as a Career and Technology Education Teacher Leader and STEM Teacher Leader at the county and school level. He is seen as an innovator and leader regarding his use of instructional technology and leads training sessions to help teachers from all content areas. He also assists with curriculum development and assessment at a local and national level.

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