MINORS IN APPLIED ENGINEERING, SAFETY & TECHNOLOGY

Employers are looking for well-educated professionals to meet the needs of today's global society. With the rapid pace of technological change, you can be better prepared to meet the challenges of your profession with a minor from the Department of Applied Engineering, Safety & Technology (AEST).

ADVANCED MANUFACTURING TECHNOLOGY

Manufacturing is the largest sector in Pennsylvania's economy, and currently there are over 565,000 people employed in manufacturing positions throughout the Commonwealth. The Advanced Manufacturing Technology option will provide you with significant experiences in materials processing and manufacturing processes. A minor in Advanced Manufacturing Technology gives students a technical skill set that is highly valued in industry. Skills such as computer numerical machining and materials science are highly sought-after by many companies.

COMPUTER-AIDED DRAFTING & DESIGN

Those who work in computer-aided drafting use their skills to create two- and three-dimensional computer drawings for various industries. This minor provides practical laboratory experiences using advanced 2D and 3D Computer-aided design applications. The coursework provides an introduction to manufacturing process and design of products, 3D printing, architecture and machine tools where collaborative projects enhance problem-solving and analytical skills. The technical course offerings are from the computer-aided drafting and design concentration.

CONTROL SYSTEMS TECHNOLOGY

The Controls Systems Technology minor requires students to complete six courses from the offerings in the Automation & Robotics Engineering Technology (ARET) program. Three of these courses are core ARET classes: Electronic Systems, Semiconductor Electronics, and Power Conversion & Control. To complete the minor, students must choose three additional courses from nine options: Production Materials & Processes, Drafting Communications, Fluid Power, Computer-Aided Engineering Drawing, Digital Electronics, Industrial Robotic Systems, Programmable Logic Controllers, Wireless Communication Systems, and Mobile Electronics. A Control Systems minor can help students become knowledgeable about, and skilled in, practices involved in controls engineering technology.

Millersville University