Engineering Technology

The Bachelor of Science in Engineering Technology (BSET) program at Wichita State University is a hands-on program based on engineering technology fundamentals, engineering principles, instrumentation, mathematics, science and practical design principles needed to equip students for employment or further education. The focus is on current engineering technology issues and applications used in product design, testing, installation and maintenance to prepare students for careers in manufacturing, cybersecurity, construction, health care, education and technical services or sales.

The BSET curriculum offers four specialized program concentrations:

- civil engineering technology;
- cybersecurity;
- engineering technology management,
  - traditional option,
  - hybrid option; and
- mechatronics technology.

1 In addition to the traditional option (face-to-face), it is also available as an online/hybrid option for coursework in the last two years.

Program Educational Objectives

Within a few years after graduating from the engineering technology program, the graduates would have:

1. Identified, analyzed and solved broadly-defined engineering technology problems in mechatronics, technology management or environmental sustainability.
2. Engaged in professional development activities through training, certification or advanced degree in engineering technology or related fields.
3. Demonstrated the commitment to address professional and ethical responsibilities including a respect for diversity.

Sequence of Courses

The engineering technology undergraduate program requires a minimum completion of 120 credit hours for graduation minus advanced placement credit. Technical elective courses enable a student to graduate with a broad background in engineering technology with a focus in one of four concentrations: civil engineering technology, cybersecurity, engineering technology management or mechatronics technology.

Applied Learning

Students in engineering technology programs are required to complete an applied learning or research experience to graduate from the programs. The requirement can be met by completing the two-course capstone design experience consisting of ENGT 401 and ENGT 402.

For further program information, please visit http://wichita.edu/engtech, or contact:

Gary Brooking  
Director of Engineering Technology  
College of Engineering  
1845 Fairmount Street  
Wichita, KS 67260-0044  
Phone: 316-978-7637  
Email: Gary.Brooking@wichita.edu (gary.brooking@wichita.edu)

Majors in Engineering Technology

- BSET in Engineering Technology - Concentration in Civil Engineering Technology (http://catalog.wichita.edu/undergraduate/engineering/enginering-technology/engineering-technology-bset-concentration-renewable-energy-technology)
- BSET in Engineering Technology - Concentration in Cybersecurity (http://catalog.wichita.edu/undergraduate/engineering/enginering-technology/bset-in-engineering-technology---concentration-in-cybersecurity)
- BSET in Engineering Technology - Concentration in Engineering Technology Management (http://catalog.wichita.edu/undergraduate/engineering/enginering-technology/engineering-technology-bset-concentration-engineering-technology-management)
- BSET in Engineering Technology - Concentration in Mechatronics Technology (http://catalog.wichita.edu/undergraduate/engineering/enginering-technology/engineering-technology-bset-concentration-mechatronics-technology)

Minors in, or of special interest to, Engineering Technology Students

- General Business — A minor in general business is available to any student who is not pursuing a degree in the Barton School of Business. Please see the Barton School of Business section of the catalog for detailed minor in general business (http://catalog.wichita.edu/undergraduate/w-frank-barton-business/general-business-minor) requirements.
- Management — A minor in management is available to any student whose major field or area of emphasis is outside of management. Please see the Barton School of Business section of the catalog for detailed minor in management (http://catalog.wichita.edu/undergraduate/w-frank-barton-business/management-minor) requirements.
- Computer Science — The CS minor provides a valuable addition to the mechatronics technology major. Please see the Electrical Engineering and Computer Science section of the catalog for minor in computer science (http://catalog.wichita.edu/undergraduate/engineering/electrical-engineering-computer-sciences/computer-science-minor) requirements.

Courses in Engineering Technology

- Engineering Technology (ENGT) (http://catalog.wichita.edu/undergraduate/courses/engt)