

DIVISION OF ENGINEERING TECHNOLOGY

Engineering technology education is concerned with the real-world application of engineering achievement. Almost all faculty members have extensive industrial experience, and students are educated and trained in such a way that they will be ready to work with little or no additional training after graduation.

Curricula

Engineering technology curricula at OSU are four-year programs which lead to the Bachelor of Science in Engineering Technology. Graduates of the program are known as “technologists and/or applied engineers.” The student receives an intensive education in his or her technical specialty and great depth in mathematics and technical sciences. The program provides breadth in related technical, communication and socio-humanistic studies. The graduate is to be capable of independent action in performance of technical activities and is frequently involved as a coordinator, expeditor or supervisor of other technical personnel. His or her capability in technical sales and other public-contact positions is enhanced by his or her background in selected liberal studies.

The engineering technology graduate is qualified to select from a broad array of engineering-related positions. Job titles of engineering technology graduates include field engineer, test engineer, associate engineer, product engineer, sales engineer, tool designer, production engineer, engineering technologist, estimator, scheduler and project engineer.

Those who have the interest and aptitude toward applications are likely engineering technology majors. These students particularly appreciate the engagement of technical specialty courses beginning with the first semester and continuing throughout the course of study. The relevance of the technical science and related technical courses adds further satisfaction.

The Division of Engineering Technology is offering opportunities for its students to minor in entrepreneurship. Usually, students will take two or three additional classes to get a minor in addition to his/her degree.

The Bachelor of Science in Engineering Technology program is composed of the following curricular subdivisions:

Mathematics and science—trigonometry, applied calculus, general physics, and chemistry or other science.

Technical specialty—technical science and related technical courses. Communication—English composition, and written and oral technical communication.

Social sciences and humanities—history, government, religion, literature, art, music.

Electives—controlled and general.

Bachelor of Science in Engineering Technology Degree Programs

Construction Management Technology, 124 hours

Electrical Engineering Technology, 130 hours

Fire Protection and Safety Engineering Technology, 125 hours

Mechanical Engineering Technology, 122 hours

Master of Science in Engineering Technology Degree Programs

Fire Safety and Explosion Protection, 30 or 32 hours

Master of Science Degree Programs

Fire and Emergency Management Administration, 33 hours

Doctorate of Philosophy Degree Programs

Fire and Emergency Management Administration, 45 hours beyond the master's degree.

Accreditation

Each Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

CO-OP Program

The College of Engineering, Architecture and Technology offers an experience-based program, Cooperative Education (Co-op). Co-op allows engineering technology students to achieve a balanced education through the combination of theoretical and practical knowledge during their early years of professional development. The student's education is a cooperative effort between the University and industry. Students alternate semesters on campus with work semesters in industry during their junior and senior years. The periods of employment constitute an essential element in the educational process. Students gain practical knowledge which is carried back to the classroom, giving academic programs a sense of reality. By the time they receive their degrees, students have accumulated the equivalent of a year-and-a-half of progressively challenging work experience.

Participation in Co-op is voluntary; transfer students must successfully complete at least one semester at OSU prior to their first placement. Students may obtain further information about the program from the coordinator, 101A Engineering North.

Transfer Students

An important, contemporary educational development is the “two-plus-two” bachelor's program. Those completing an associate degree in technology-oriented curricula at other institutions are generally admissible to the junior year with a minimum loss of academic time. The “two-plus-two” concept provides the attractive feature for students to obtain a four-year undergraduate degree in engineering technology.

Required coursework in mathematics and basic science is utilized to meet up to 18 semester hours of General Education requirements also. The Scientific Investigation requirement is met as a part of the coursework meeting professional requirements for basic science.

Academic Areas

- Construction Engineering Technology (<http://catalog.okstate.edu/engineering-architecture-technology/construction-engineering-technology>)
- Electrical Engineering Technology (<http://catalog.okstate.edu/engineering-architecture-technology/electrical-engineering-technology>)
- Fire Emergency Management Program (<http://catalog.okstate.edu/engineering-architecture-technology/fire-emergency-management-program>)

- Fire Protection and Safety Engineering Technology (<http://catalog.okstate.edu/engineering-architecture-technology/fire-protection-safety-engineering-technology>)
- Mechanical Engineering Technology (<http://catalog.okstate.edu/engineering-architecture-technology/mechanical-engineering-technology>)

Faculty

Young Chang, PhD, PE, CFPS—Professor and Interim Head