DIVISION OF ENGINEERING TECHNOLOGY

The Division of Engineering Technology is comprised of multiple undergraduate and graduate degree programs with a wide range of major areas. Five programs are housed within the Division: Construction Engineering Technology, Electrical Engineering Technology, Fire and Emergency Management, Fire Protection and Safety Engineering Technology, and Mechanical Engineering Technology. We offer four ABET-accredited baccalaureate degrees, four undergraduate minors, three masters degrees and one doctor of philosophy degree.

Curricula

Our undergraduate curricula focus on hands-on learning and real-world applications. Most Engineering Technology faculty members have extensive industrial experiences, and our graduates are ready to be productive with little or no additional training. Our graduates’ typical job titles are design engineer, application engineer, manufacturing engineer, field engineer, fire protection engineer, safety engineer, industrial hygienist, plant manager, project manager, estimator, and superintendent.

The Construction Engineering Technology (CET) program produces graduates with either a building or a heavy/highway focus. Students experience two internships providing them the opportunity to connect the classroom knowledge with field experiences. CET graduates are highly sought after by the construction industry, and the job placement rate is 100%. The Fire Protection and Safety Engineering Technology (FPSET) program has a long and rich history serving as the first baccalaureate ABET accredited FPSET program and still one of only a few in the nation. FPSET graduates are widely sought after by varied industries looking to reduce fire and safety losses. Students have a variety of career choices and flexibility due to the diversity of education the program provides.

The Electrical Engineering Technology (EET) curriculum is based on rigorous math and science courses, and its major courses are taught to be applicable to solve 21st-century challenges in electronics and computer technology. The EET program is laboratory-oriented in applied electrical engineering using current application information and practices to solve specific technical problems. The Mechanical Engineering Technology (MET) curriculum is nearly identical to the Mechanical Engineering (ME) curriculum for the first two years, but our upper-level major courses are taught with more emphasis on applications. Multiple MET major courses are popular among engineering undergraduate and graduate students who find their values for job search and thesis/dissertation research.

Minor degree choices are available in four areas. The Construction Minor, the Emergency Management Minor, and the Safety and Exposure Sciences Minor are open to students from all majors in the university. The Mechatronics Minor is mainly for those whose major is electrical engineering, mechanical engineering, EET, or MET.

We offer graduate degree options including Ph.D. and M.S. in Fire and Emergency Management Administration, MSET with an option in Fire Safety and Explosion Protection, and MSET with an option in Mechatronics and Robotics.

The MS in Fire and Emergency Management Administration is a specialized degree designed to provide an educational foundation for those who are currently serving or aspire to serve as managers or administrators in the fire service, emergency management, emergency medical services, law enforcement, or homeland security in the public, private, or nonprofit sectors. The PhD in Fire and Emergency Management Administration is designed to produce proficient and active research scholars. It emphasizes preparing talented individuals for faculty careers at major research-oriented institutions, but we also welcome applicants who career interests may lean toward non-academic settings or academic institutions that stress teaching.

The MS in Engineering Technology with an emphasis on Fire Safety and Explosion Protection is intended for individuals pursuing a career in engineering or the science underlying fire protection and safety. The courses are set up for both the needs of on campus students as well as working professionals with all classes being available both in-person and online.

The MS in Engineering Technology with an emphasis on Mechatronics and Robotics is a specialized degree developed in response to the increasing demand for mechatronics professionals. It is designed in combination of Electrical Engineering Technology and Mechanical Engineering Technology programs. The courses are offered both in-person on campus and online.

Bachelor of Science in Engineering Technology Degree Programs
- Construction Engineering Technology, 124 hours
- Electrical Engineering Technology, 125 hours
- Fire Protection and Safety Engineering Technology, 125 hours
- Mechanical Engineering Technology, 120 hours

Master of Science in Engineering Technology Degree Programs
- Fire Safety and Explosion Protection, 30 or 32 hours
- Mechatronics and Robotics 30 hours

Master of Science Degree Programs
- Fire and Emergency Management Administration, 33 hours

Doctorate of Philosophy Degree Programs
- Fire and Emergency Management Administration, 60 hours beyond the master’s degree.

Accreditation

Transfer Students
We provide students from 2-year degree institutions excellent opportunities to obtain a bachelor’s degree within four or a little more than four semesters at OSU. Transfer maps are available for students at community colleges and also engineering schools.