Computer Science and Engineering Technology at UT

The computer science and engineering technology (CSET) program is a hands-on education leading to careers in the planning, construction, troubleshooting, and management of hardware and software elements in data networks. Students also are prepared for careers in Web site design and development.

Graduates of UT’s computer science and engineering technology program qualify for registration as Professional Engineers after a period of professional engineering employment (eight years in Ohio) and completing the Fundamentals of Engineering (FE) Exam and the Professional Engineering (PE) Exam. In addition, graduates of the bachelor of science degree programs in engineering technology are eligible to pursue a master of science in engineering through the College of Engineering’s part-time, evening graduate program.

What to expect when you graduate

CSET graduates are valuable additions to high-tech corporations that are developing, maintaining or marketing computer systems. According to the U.S. Bureau of Labor Statistics, the fastest growing occupation in the United States is computer support specialist/computer scientist; this includes CSET graduates. Demand for these professionals is expected to be one of the fastest growing through 2012.
The College of Engineering is one of ten mandatory engineering co-op programs in the United States. Engineering Technology students may optionally participate in the co-op program. It also has one of the nations top 20 graduate engineering programs as ranked by the Princeton Review.

### Sample Curriculum*

#### FIRST YEAR

**Fall Semester**
- ENGT 1000 Intro to Engineering Tech 1
- CSET 1100 Unix and C 3
- ENGL 1110 English Composition I 3
- PHIL 1010 Intro to Logic 3
- EET 2420 Elect Instrumentation Lab 1
- Social Science Elective 3
- **Total** 14 hrs.

**Spring Semester**
- CSET 1200 GUI Programming 3
- EET 2210 Digital Logic Fundamentals 4
- ENGL 2950 Sci & Tech Report Writing 3
- PHYS 2010 Technical Physics I 4
- EECS 1590 Discrete Structures 3
- **Total** 17 hrs.

#### SECOND YEAR

**Fall Semester**
- PHYS 2020 Technical Physics II 4
- MATH 2450 Technical Calculus I 4
- EET 2230 Assembly Language Programming 4
- Communications Elective 3
- Social Science Elective 3
- **Total** 18 hrs.

**Spring Semester**
- ENGT 3010 Statistics & DOE 4
- MATH 2890 Numerical Methods & Linear Alg 3
- CSET 3150 Advanced Programming 4
- CSET Elective 3
- ENGT 2000 Professional Development 1
- **Total** 15 hrs.

#### THIRD YEAR

**Fall Semester**
- ENGT 3010 Statistics & DOE 4
- MATH 2890 Numerical Methods & Linear Alg 3
- CSET 3150 Advanced Programming 4
- CSET Elective 3
- ENGT 2000 Professional Development 1
- **Total** 15 hrs.

**Spring Semester**
- EET 3350 Digital Systems Design 4
- CSET 3600 Software Engineering & Human Interfacing 3
- CSET 3300 Database Driven Web Sites 4
- Natural Science Elective 4
- **Total** 15 hrs.

#### FOURTH YEAR

**Fall Semester**
- CSET 4750 Comp Net & Data Comm 4
- EET 4250 Microcomputer Architecture 4
- CSET 4100 Server Side Programming 3
- Multicultural Elective 3
- Professional Development Elective 3
- **Total** 17 hrs.

**Spring Semester**
- ENGT 4050 Senior Tech. Capstone 3
- CSET 4250 Comparative Prog Languages 3
- CSET Elective 4
- Hum/Multicultural Elective 3
- Professional Development Elective 3
- **Total** 16 hrs.

*Sample curriculum is subject to change. Please consult the department for up-to-date information. For more detailed program requirements, visit catalog.utoledo.edu.