The Department of Civil Engineering at the University of Toledo (UT) offers the Master of Science in Civil Engineering (M.S.C.E.) and Doctor of Philosophy (Ph.D.) in engineering degrees. These programs are designed to provide students with an advanced understanding of traditional civil engineering in environmental, geotechnical, transportation, or structural engineering, as well as application-oriented multidisciplinary education and research.

The M.S. in Civil Engineering program is designed to prepare students for research and advanced engineering careers. The program requires the completion of 30 semester hours beyond the bachelor's degree for the thesis or project option. The Ph.D. program is designed for those planning research-oriented industrial or academic careers or for professional civil engineering practice for the advancement of science, engineering, and technology. The program requires a qualifying examination, a minimum of 90 semester credit hours (60 semester credit hours beyond the master's degree) of course work and dissertation, and a successful oral defense of the dissertation work.

The graduate tuition rate for the 2004-05 academic year was $347.14 per semester credit hour for in-state students and $922.95 per semester credit hour for out-of-state students. Additional fees are required and include the general fee, technology fee, and mandatory insurance.

The University of Toledo has several campus sites in the city of Toledo. All engineering graduate students take classes on the Bancroft campus, which is located in suburban western Toledo. With a population of more than 330,000, Toledo is the fiftieth-largest city in the United States. It is located on the western shores of Lake Erie within a 2-hour drive of Cleveland and Detroit.

The University of Toledo was founded by Jessup W. Scott in 1872 as a municipal institution and became part of the state of Ohio's system of higher education in 1967. The College of Engineering was founded in 1921 and began offering graduate degrees in 1947. The College of Engineering is housed in a modern five-building complex, which is composed of Nitschke Hall, Palmer Hall, Westwood Annex, The Lois and Norman Nitschke Auditorium, and North Engineering. Recently opened facilities include a new multimedia auditorium and state-of-the-art studio/classroom complex for computer-aided instruction and distance-learning initiatives.

Applying

Students with a Bachelor of Science in engineering or one of the physical, mathematical, or biological sciences are encouraged to apply. Applicants should have a minimum of a 3.0 grade point average (on a 4.0 scale), but exceptions are made for those who demonstrate ability for graduate study. Applications should be completed by March 1 for full consideration for the fall semester. Admission materials can be obtained from the graduate school office or from the Web site.

Correspondence and Information

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THE FACULTY AND THEIR RESEARCH

Douglas Nims, Associate Professor of Civil Engineering and Interim Chair; Ph.D., Berkeley. Bridge instrumentation, segmental concrete structures, elastomeric bridge bearings, passive seismic control of buildings.

Defne Apul, Assistant Professor of Civil Engineering; Ph.D., New Hampshire. Fate and transport of chemicals in water and soils, environmental risk assessment.

Eddie Chou, Professor of Civil Engineering; Ph.D., Texas A&M. Transportation facilities design, systems analysis, engineering material properties, pavement performance evaluation, infrastructure management.

Cyndee Gruden, Assistant Professor of Civil Engineering; Ph.D., Michigan. Bioremediation, waste water, water supply.

Jiwan Gupta, Professor of Civil Engineering and Graduate Program Director; Ph.D., Waterloo. Transportation planning and facility design, transportation system management and economics.

Andrew Heydinger, Professor of Civil Engineering; Ph.D., Houston. Foundation engineering, laboratory testing, field instrumentation and mathematical modeling, analysis of deep foundations, geoenvironmental engineering, testing of pavement base and subbase materials.

Ashok Kumar, Professor of Civil Engineering; Ph.D., Waterloo. Air pollution, risk analysis, pollution prevention and environmental information technology.

Naser Mostaghel, Professor of Civil Engineering; Ph.D., Berkeley. Structural mechanics, earthquake engineering, base isolation and impulse loaded structures.

Azadeh Parvin, Associate Professor of Civil Engineering; D.Sc., George Washington. Composite applications in structural engineering and finite element analysis.

Mark Pickett, Professor of Civil Engineering; Ph.D., Connecticut. Extreme load safety analysis of structures and mechanical components, masonry structures, and earthquake forensics.

Brian Randolph, Chairperson and Professor of Civil Engineering; Ph.D., Ohio State. Subsurface instrumentation, geosynthetics, soil testing, flow modeling.