Western Michigan University’s Mechanical Engineering (M.S.E., Ph.D.) programs utilize state-of-the-art laboratories in experimental and computational fluid mechanics, aerodynamics, combustion, experimental plasmadynamics, fatigue and fracture, advanced composite structures, materials science, noise and vibration, motion and control, advanced vehicle design and simulation, micro and nano-technology, and alternative fuel and fuel cells.

Classes are taught by experienced faculty, with many having industrial experience. Class sequencing and scheduling (in the evening hours) are arranged so that a full-time working engineer can take advantage of our programs.

The Ph.D. program is designed to intensify each student’s engineering knowledge and comprehension, with emphasis on original high-quality research in a chosen area of specialty.

Ph.D. students may be admitted after completing their B.S. or M.S. degrees and are required to complete a total of 69 or 45 course and research credits, respectively.

We prepare our graduates to make strong contributions to either industry or academics.

Within the M.S.E. program, Thesis (30 credits) and Non-Thesis (36 credits) options are available. This program allows students to focus on their area of interest in mechanical engineering.
Mechanical Engineering (M.S.E., Ph.D.)

Teaching, Research, and Program Focus Areas
Department faculty are actively involved in research in: mechanical systems and structural dynamics, system design and controls, smart and biomaterials, mechanics of composite materials, experimental stress analysis, fatigue and fracture of engineering materials, vehicle dynamics, experimental and computational fluid dynamics, thermal and power systems, alternate and renewable energy, fuel cells, combustion, noise and vibrations, finite element analysis, experimental plasmadynamics, and micro and nano-technology.

Admissions
All applicants must submit GRE scores. Doctoral degree applicants must also provide a Statement of Purpose along with three letters of reference. All doctoral degree applicants must contact department faculty who are active in the student’s area of research interest and secure a faculty member who will supervise their doctoral research before applying to the program. All application information is available at: www.wmich.edu/mae/programs/app-procedures.html

Domestic application deadlines: June 1 for fall admission, November 1 for spring admission, March 1 for Summer admission.

International application deadlines: April 1 for fall admission, August 1 for spring admission, January 15 for Summer admission.

Graduate Assistantships/Associateships
The department provides a limited number of teaching assistantships. Applicants are advised to contact faculty members who have funded grants to obtain financial support. Many full-time graduate students are funded in this manner.

Contact
Dr. Koorosh Naghshineh
Mechanical Engineering Graduate Advisor
koorosh.naghshineh@wmich.edu

Department of Mechanical and Aerospace Engineering:
(269) 276-3420

Western Michigan University
One of the top-100 public universities in the United States, Western Michigan University offers many nationally known graduate programs, including 29 doctoral and 64 master’s degrees. More than 20 percent of its 25,000 students are enrolled in graduate course work.

Kalamazoo
With a population of more than 325,000, Kalamazoo is the sixth largest metropolitan area in Michigan and among the 150 largest in the country. Kalamazoo is rated one of the 25 best cities in the country for young college graduates, and is located midway between Chicago and Detroit.