Online MS in Mechanical Engineering

The online Master of Science (MS) in Mechanical Engineering is designed to prepare you for management or research roles in fields ranging from robotics and aerospace to combustion science and biomanufacturing. Our novel curriculum is built on a collaborative, interdisciplinary approach to mechanical engineering, and it emphasizes technical areas including applied mechanics, dynamic systems, biomechanics, fluid mechanics, heat transfer and more. Develop your technical expertise and bolster your professional skill set to move into engineering leadership today.

Program Benefits

- Engage 100 percent online coursework to build your expertise in mechanical systems and design
- Strengthen your management potential with a curriculum designed to augment your technical skills with professional acumen
- Earn a practice-oriented degree that does not feature a required master’s thesis
- Learn from renowned faculty with extensive leading-edge research experience, in an engineering school with a pedigree of excellence of more than 130 years
- Work collaboratively with classmates in select live online environments for group assignments
- Enjoy professional support, including entrepreneurial opportunities through CWRU LaunchNet and remote or in-person appointments with CWRU’s innovative on-campus academic makerspace, Sears think[box]

Online Program Structure

- 30 credit hours
- 10 courses
  - 8 core courses
  - 2 electives
- Can be completed in as few as 18 months
- 3 annual starts: spring, summer and fall

Admissions Requirements

- Completed online application form
- Bachelor’s degree (Bachelor of Science in engineering preferred)
- Official transcripts
- GRE scores (a waiver may be available to qualified applicants)
- Personal statement of one to two pages
- Resume/CV
- Two letters of recommendation from professional or academic sources (non-family)
- Application fee: $50 (Speak with an advisor about waiving your fee)
- International Applicants:
  - TOEFL or IELTS scores
  - Evaluation of Foreign Studies for any academic records in a language other than English, completed by any NACES member

Case Western Reserve University
855-500-3840
admissions.case@elearningctr.com
The Curriculum

Core Courses:
EPOM 400  Leadership and Interpersonal Skills
EMAE 450  Advanced Engineering Analysis
EMAE 456  Micro-Electro-Mechanical Systems in Biology and Medicine (BioMEMS)
EMAE 460  Theory and Design of Fluid Power Machinery
EMAE 480  Fatigue of Materials
EMAE 481  Advanced Dynamics I
EMAE 487  Vibration Problems in Engineering
EMAE 494  Energy Systems

Electives (Choose 2):
EPOM 405  Applied Engineering Statistics
EPOM 407  Engineering Economics and Financial Analysis
EECS 401  Digital Signal Processing

Join a new breed of engineering leaders. Transform your career.
Are you ready to move into a leadership or research role in the dynamic field of mechanical engineering? Learn more about our online MS in Mechanical Engineering program by reaching out to an Admissions Advisor at 855-500-3840 or admissions.case@elearningctr.com.