MASTER OF SCIENCE IN MECHANICAL ENGINEERING, PLAN A

The Master of Science in Mechanical Engineering, Plan A is ideal for students who are interested in advancing their career in industry or research. The program combines valuable classroom instruction with research experiences. Students conduct research under the supervision of a faculty advisor, often the Principal Investigator (P.I.), for a government or industry sponsored project. The student's research, in conjunction with thesis credits and coursework, culminates in an article for submission to a peer-reviewed journal and a final thesis.

Students interested in graduate work should refer to the Graduate and Professional Bulletin.

Learning Objectives

1. Bring together faculty members and graduate students in a diverse community of scholars having a common interest in advanced professional study and creative work.
2. Extend the boundaries of the mechanical engineering profession by developing advanced technologies to provide creative solutions to global problems such as energy, environment and human health.
3. Consideration of a challenging problem utilizing analytical, experimental, and/or design techniques 1) to determine and explain the behavior of a simple system or 2) to bring into logical order the techniques of a field which has experienced random growth.
4. Develop new analytical knowledge, experimental knowledge, design knowledge, or a combination thereof.