Faculty
Rick J. Couvillion, Associate Professor
James Allen Davis, Instructor
Po-Hao Adam Huang, Associate Professor
David C. Jensen, Assistant Professor
Ing-Chang Jong, Professor
Jim Leylek, Professor, Twenty-First Century Leadership Chair in Engineering
Ajay P. Malshe, Distinguished Professor, Twenty-First Century Chair of Materials, Manufacturing and Integrated Systems
Paul Millett, Assistant Professor
Arun Nair, Assistant Professor
Darin W. Nutter, Professor
Larry Roe, Associate Professor, Twenty-First Century Endowed Chair
Ashok Saxena, Dean Emeritus and Distinguished Professor, Twenty-First Century Endowed Chair in Materials Science and Engineering
Douglas E. Spearot, Associate Professor
Bill Springer, Associate Professor
Steve Tung, Professor
Uchechukwu C. Wejinya, Assistant Professor
Min Zou, Professor

Degrees Conferred:
M.S.M.E. (MEEG)
M.S.E. (ENGR)
Ph.D. in Engineering (ENGR) (See Engineering)

Areas of Study: Thermal systems, mechanical design, materials science, and engineering mechanics.

Primary Areas of Faculty Research: Micro Electromechanical Systems (MEMS); Micro and Nano Systems; Boundary Elements; Structural Dynamics, and Modal Analysis; Industrial and Commercial Energy Systems and Energy Conservation; Machining, Advanced Tooling and Coatings; Thermal and Mechanical Design of Electronic Packages; Material Failure Analysis and Design of Experiments; Unsteady Aerodynamics; Computational Materials Science; Tribology; Design Theory, Complex System Design and Analysis; Cyberphysical System Fault Modeling and Simulation.

Program Educational Objectives for the Master of Science Degree:
The Program Educational Objectives of the M.S.M.E. degree in the Department of Mechanical Engineering are to produce graduates who:

1. Have a depth of knowledge in a particular field or subfield of mechanical engineering so that they are recognized as experts and/or innovators in that field;
2. Have a working knowledge of complementary areas of mechanical engineering and related fields, including other engineering disciplines, the sciences, and mathematics;
3. Have the ability to formulate a research plan;
4. Have the skills to execute a research plan and to generate and analyze original research results;
5. Are able to effectively communicate through oral presentations and written publications;
6. Are prepared for successful careers in industry, government and/or academia, and have the basic skills needed for life-long learning and professional development; and
7. Have an appreciation of scholarship, leadership, and service.

Requirements for the Master of Science Degree: In addition to the requirements of the Graduate School and the graduate engineering faculty, the following departmental requirements must be satisfied by candidates for the M.S.M.E. degree.

1. Candidates who present a thesis are required to complete a minimum of 24 semester hours of course work and six semester hours of thesis.
2. Candidates who do not present a thesis are required to complete a minimum of 33 semester hours of course work, which is to include at least three hours of credit for Research or Special Problems (including a formal engineering report), completed under direction of the candidate’s major adviser.
3. All students must present a grade-point average of 3.00 or better on all courses included in their plan of study, with no more than 6 hours of “C.”

Requirements for the Doctor of Philosophy Degree (Engineering):
Students desiring to pursue a doctoral degree in engineering under the direction of a professor in the Department of Mechanical Engineering must obtain a set of guidelines from the Graduate Coordinator.