

## **MASTER of SCIENCE in MECHANICAL ENGINEERING (MSME)**

### **Learning Outcomes and Assessment**

The student will demonstrate the ability to apply graduate-level mathematics to the solution of engineering problems in at least two of the general areas of solid mechanics, fluid mechanics, dynamics and heat transfer.

*Direct assessment:* Student learning relative to this outcome is assessed by the student's course grades in: MEEG 610 Intermediate Solid Mechanics; MEEG 620 Intermediate Dynamics; MEEG 630 Intermediate Fluid Mechanics; MEEG 640 Intermediate Heat Transfer; and MEEG 690 Intermediate Engineering Mathematics.

*Indirect assessment:* A current and updated employment listing will serve as indirect evidence of student attainment of the learning goal.

The student will demonstrate the ability to conduct, present and defend graduate-level research including literature review, motivation, methodology utilized, results, unique contributions, and conclusions generated.

*Direct assessment:* Student learning relative to this outcome is assessed by the quality of the written master's thesis and performance in the thesis defense.

*Indirect assessment:* A current and updated employment listing will serve as indirect evidence of student attainment of the learning goal.