

**Kansas State University**  
**Mechanical and Nuclear Engineering Department**  
**Student Learning Outcomes**

Name of Degree Program: ..... Mechanical Engineering

Degree Offered: ..... Masters

CIP Code:..... 141901

Graduates of the KSU MNE Department's Graduate Program, with a Masters Degree in Mechanical Engineering, will possess the following traits:

1. Ability to solve engineering problems using advanced mathematical, scientific, computational, and analytical methods appropriate to the Mechanical Engineering discipline. (All M.S.)
2. Ability to synthesize and critically evaluate information pertinent to the Mechanical Engineering discipline. (All M.S.)
3. Demonstration of advanced knowledge in one or more areas of specialization within the Mechanical Engineering discipline. (All M.S.)
4. Ability to plan and conduct scholarly activities in one or more areas of specialization within the Mechanical Engineering discipline. (M.S. Thesis and M.S. Report)
5. Preparation for leadership and teamwork through enhanced independence, initiative, and responsibility. (All M.S.)
6. Ability to communicate effectively both in written and oral forms. (All M.S.)
7. Understanding of the importance of the ethical, safety, socio-economic, and environmental issues related to the Mechanical Engineering profession. (All M.S.)
8. Recognition of the importance of life-long learning and professional service to the Mechanical Engineering profession. (All M.S.)

Note: The KSU MNE Department offers three **Masters Degree options**: Thesis Option, Report Option, and Courses Option. The parenthetical note following each outcome above designates the option(s) to which the specific outcome applies.