2012-2013 Annual Assessment Report - Mechanical Engineering Program University of Colorado Boulder College of Engineering and Applied Science

Curriculum goals of the unit:

The educational objective of the undergraduate program in mechanical engineering is to prepare graduates so that within three years of graduation, they will have successfully established themselves in professional careers and/or obtained a graduate degree, and will have begun to generate new knowledge or exercise leadership in their positions to the benefit of society.

Each graduate of the mechanical engineering program is expected to:

- Apply knowledge of mathematics, science, and engineering
- Identify, formulate, and solve engineering problems
- Use computers to solve engineering problems
- Use modern instrumentation
- Design and conduct experiments, including the use of probability and statistics
- Understand contemporary issues in mechanical engineering
- Analyze and interpret data
- Design thermal systems, components, or processes to meet desired needs
- Design mechanical systems, components, or processes to meet desired needs
- Understand the processes used to manufacture products
- Understand contemporary issues in mechanical engineering
- Make effective oral presentations
- Write effectively
- Function effectively on multi-disciplinary teams
- Understand professional and ethical responsibility

- Understand the impact of engine