MARQUETTE UNIVERSITY
UNDERGRADUATE PROGRAM
LEARNING OUTCOMES

MECHANICAL ENGINEERING (2006, Revised: January/2009 and 2013)

At the completion of the Mechanical Engineering major, the graduate is able to:

1. Apply knowledge of mathematics, science, and engineering.
2. Design and conduct experiments as well as analyze and interpret data.
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.
4. Function on multi-disciplinary teams.
5. Identify, formulate, and solve engineering problems.
6. Understand professional and ethical responsibility.
7. Communicate effectively.
8. Understand the impact of engineering solutions on in a global, economic, environmental, and societal context.
9. Engage in life-long learning and recognize the need for it.
10. Understand contemporary issues.
11. Use the techniques, skills, and modern engineering tools necessary for engineering practice.