MARQUETTE UNIVERSITY
UNDERGRADUATE PROGRAM
LEARNING OUTCOMES

ELECTRICAL ENGINEERING (Updated 2/18/08)
At the completion of the Electrical 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 their professional and ethical responsibility.

7. Communicate effectively.

8. Understand the impact of engineering solutions in a global, economic, environmental, and societal context.


10. Understand and evaluate the impact of contemporary issues.

11. Use the techniques, skills, and modern engineering tools necessary for engineering practice.

12. Use probability and statistics and advanced mathematics applicable to the electrical engineering discipline.