

1. EGGG 101 INTRO TO ENGINEERING

2. Credits Contact Hours 2

3. Fall 2016

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4. Textbook and Other Supplemental Materials

- Textbook: None
- Other Supplemental Materials: Sakai, Clicker, hardbound notebook

5. Specific course information

Catalog Description

Introduction to profession, including disciplines of chemical, civil, computer, electrical, environmental, and mechanical engineering. Prepares students for success through integration of: technical problem solving and engineering design, ethical decision-making, teamwork, and communicating to diverse audiences.

Prerequisite: none

Course is required.

6. Specific goals for the course

Objectives This course provides an overview of common engineering principles, concepts, and skills along with general university first-year objectives. The course is organized by the Engineering Grand Challenges as well as the four-stage design process of problem definition, concept generation and selection, prototype construction, and validation. Class time is dedicated to active learning strategies around these core concepts. You will have two major design projects in this course that you will complete with your assigned project group. These projects will require you to perform some hands-on design as well as practice effective communication in oral, written, and graphical form.

Student Outcomes Addressed: This course can address the outcomes as indicated in the Criterion 4 Figure; however, only upper-level required Mechanical Engineering courses are used to assess and evaluate accreditation outcomes.

7. Brief List of Topics

- Design Process
- Teamwork
- Communication (poster, presentation)