

## MECHANICAL ENGINEERING PROGRAM

### ABET COURSE SYLLABUS

#### ME 263 Introduction to Mechanical Engineering For Transfer Students (1 Unit) Required for Transfer Students

**Course Description:** (2019-2020 Catalog) Introduction to mechanical engineering and its application in professional practice. Investigation of personal and professional ethics. Familiarization with the ME curriculum including cooperative education and international exchange opportunities. 1 lecture.

**Prerequisite Courses:** None

**Prerequisites by Topic:** None

**Textbook:** (and/or other required material) None

**References:** None

**Course Coordinator/Instructor:** Sarah Harding, Lecturer, ME Department

**Course Learning Outcomes:**

1. Students will **explore** ethics in the context of being a student and a member of a profession.
2. Students will **produce** a graduation plan demonstrating a good understanding of the ME curriculum.
3. Students will **distinguish** between the available concentrations in the ME curriculum.
4. Students will **know** of the co-curricular activities available as an ME major at Cal Poly.
5. Students will **discuss** career opportunities in ME.

**Relationship of Course to Mechanical Engineering Student Outcomes:**

SO 1:  
SO 2:  
SO 3:  
SO 4: Introduce (I)  
SO 5:  
SO 6:  
SO 7:

**Topics Covered:**

1. Introduction to ethical considerations in engineering.
2. Introduction to the mechanical engineering curriculum
3. Introduction to the mechanical engineering concentrations
4. Mechanical engineering course planning

5. Mechanical engineering career opportunities
6. Engineering exchange opportunities
7. Introduction to mechanical engineering department sponsored co-curricular clubs
8. Mechanical Engineers in Industry: Field Trip/Tour or Guest Speaker

**Class/Lab Schedule:** One 50-minute lecture per week.

**Contribution of Course to Meeting the Professional Component:**

- |                                                   |           |
|---------------------------------------------------|-----------|
| (a) College-level mathematics and basic sciences: | 0 credits |
| (b) Engineering Topics:                           | 1 credit  |
| Design                                            | 0 credits |
| (c) General Education:                            | 0 credits |
| (d) Other:                                        | 0 credits |

**Prepared by:**  
Sarah Harding

**Date:**  
10/15/19

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