

Appendix A – Course Syllabi

1. *Course number and name*

ENGR 100: Introduction to Engineering

2. *Credits and contact hours*

1 credit hour; one hour lecture session/week.

3. *Instructor's or course coordinator's name*

Instructor: Robert Paul Levenson

Course coordinator: Jonathan Song Lecturer and Computer Lab Manager

4. *Text book, title, author, and year*

Optional: Concepts in Engineering, 2nd Edition, McGraw Hill, 2008 (ISBN 978-0-07-319162-1).

a. *other supplemental materials*

Janet R. Katz, Keys to Science Success, Prentice Hall, 2000.

Ernest A. Kallman, Ethical Decision Making and Information Technology, McGraw-Hill, 1996

5. *Specific course information*

a. *brief description of the content of the course (catalog description)*

Description of the major engineering fields and their subfields. Day to day activities of engineers.

Engineering professionalism, ethics, lifelong learning, and career planning. Survival skills. Safety issues and School of Engineering policies

b. *prerequisites or co-requisites*

High school algebra and trigonometry.

c. *indicate whether a required, elective, or selected elective course (as per Table 5-1) in the program*

Required for Civil, Electrical, Mechanical and Computer Engineering.

6. *Specific goals for the course*

a. *specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic.*

- Students understand the benefits and consequences of engineering solutions to societal and global problems.
- To develop written and oral communication skills.

b. *explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course.*

Course addresses ABET Student Outcome(s): f, g, h, i, j

7. *Brief list of topics to be covered*

- Introduction to Civil, Mechanical and Electrical Engineering
- Engineering Professionalism and Success
- Description of Major Engineering Fields
- Engineering Ethics, Global and Societal Issues
- Engineering Societies
- Writing Communication Skills
- Oral Communication Skills