**1. Course number and name**

ENGR 697: Engineering Design Project II

**2. Credits, contact hours, and categorization of credits in Table 5-1**

2 Credit Hours, One 2-hour-45-minute lab session/week, engineering topic

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

Instructor: Dr. Timothy D'Orazio

Course coordinator: Timothy D’Orazio, Professor of Civil Engineering

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

None

*a. other supplemental materials*

SAP2000, AutoCad, SolidWorks

**5. Specific course information**

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

Continued work on a design project with maximum independence under supervision of a faculty adviser. Oral and written project reports required. May be repeated in the case of a double major. (Plus-minus ABC/NC grading only)

*b. prerequisites or co-requisites*

ENGR 696

*c. indicate whether a required, elective, or selected elective course in the program*

Required for Civil Engineering.

**6. Specific goals for the course.**

a. Specific outcomes of instruction.

• Each student, in cooperation with his/her project team, organizes the project into tasks and assumes individual responsibility for various tasks.

• Each student is responsible for pursuing his/her assigned activities in depth, utilizing knowledge obtained from prior courses.

• In concert with team members, each student must contribute a significant body of work to the overall project

• Students will listen to each others opinions and support each others activities. Each student coordinates his/her tasks with fellow team members

• When problems arise on technical or managerial aspects of the project, students discuss the problems with fellow team members and seek guidance from the faculty advisor(s).

• Students identify and provide appropriate discussion of constraints in oral presentations and written final report.

• Each student prepares and clearly presents a portion of the final oral report.

• Individual student oral presentations are effectively coordinated with the entire team so that the team presentation is clear and unified.

• Each student prepares and clearly presents a portion of the final written report.

• Individual contributions to the final report are effectively coordinated with other contributions and the final written report is clear and unified.

• Each student assumes responsibility for his/her individual tasks.

• Each student maintains a cordial working relation with fellow teammates.

• Each student successfully completes assignments in a punctual manner.

*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): 1, 2, 3, 4, 5, 6, 7

**7. Brief list of topics to be covered**

• Organization and management of project tasks.

• Satisfying the clients (faculty advisor and instructor).

• Bringing a project to successful conclusion.

* + Effective communication of project results in oral and written forms.
  + Engineering design and design methodology