1. *Course number and name*

**ENGR 697: Engineering Design Project II**

1. *Credits and contact hours*

3 credit hours; three 50-minute lecture sessions/week, or two 1-hr-15-minute lecture sessions/week, depending on semester

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

Instructor: Tom Holton, Instructor

Course coordinator: Tom Holton, Professor of Electrical and Computer Engineering

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

none.

1. *Specific course information*
   1. *Brief description of the content of the course (catalog description)*

Continued work on a design project with maximum independence under the supervision of a faculty adviser. Oral and written project reports required..

* 1. *Prerequisites or co-requisites*

ENGR 696: Engineering Design Project I

* 1. *Indicate whether a required, elective, or selected elective course in the program*

Required for Computer Engineering

Required for Electrical Engineering

1. *Specific goals for the course*
   1. *Specific outcomes of instruction, ex. The student will be able to explain the significance of current research about a particular topic*.
      * Students will demonstrate an ability to apply knowledge of mathematics, science, and engineering
      * Students will demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data
      * Students will demonstrate an ability to 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
      * Students will demonstrate an ability to function on multidisciplinary teams
      * Students will demonstrate an ability to identify, formulate, and solve engineering problems
      * Students will demonstrate an understanding of professional and ethical responsibility
      * Students will demonstrate an ability to communicate effectively
      * Students will demonstrate the possess the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
      * Students will demonstrate a recognition of the need for, and an ability to engage in life-long learning
      * Students will demonstrate a knowledge of contemporary issues
      * Students will demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
   2. *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.

1. *Brief list of topics to be covered*

N/A