1. Course number and name
   ENGR 696: Engineering Design Project I (EE/CompE)

2. Credits and contact hours
   1 credit hour; one 2-hr, 45-min session per week

3. Instructor’s or course coordinator’s name
   Instructor: Tom Holton, Professor
   Course coordinator: Tom Holton, Professor

4. Text book, title, author, and year
   (none)

   a. other supplemental materials
   Various course handouts.

5. Specific course information
   a. Brief description of the content of the course (catalog description)
      Selection of design project, methods of research, time management, engineering professional practice
      and ethics. This course is 3rd in a series of courses (ENGR 300, 301, 696, and 697GW) that when
      completed with a C or better will culminate in the satisfaction of the University Written Eng
      Proficiency/GWAR.

   b. Prerequisites or co-requisites
      ENGR 301; 21 units completed in upper-division engineering.

   c. Indicate whether a required, elective, or selected elective course in the program
      Required for Electrical Engineering
      Required for 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.
      • an ability to apply knowledge of mathematics, science, and engineering
      • 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
      • an ability to function on multidisciplinary teams
      • an ability to identify, formulate, and solve engineering problems
      • an understanding of professional and ethical responsibility
• an ability to communicate effectively
• the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
• a recognition of the need for, and an ability to engage in life-long learning
• a knowledge of contemporary issues
• an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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): a, c, d, e, f, g, h, i, j, k.

7. Brief list of topics to be covered
   • Design process and methodology
   • Scheduling and time management
   • Literature, resource, and component information gathering
   • Oral communication and presentation skills
   • Interviewing, resume writing
   • Ethics
   • Professionalism