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