

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