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