1. **Course number and name**  
ENGR 697: Engineering Design Project II

2. **Credits and contact hours**  
2 credit hours: one 2-hr, 45-min session per week

3. **Instructor’s or course coordinator’s name**  
Instructor: Tom Holton, Professor of Electrical and Computer Engineering; Kwok Siong Teh, Associate Professor of Mechanical Engineering  
Course coordinator: Tom Holton, Professor of Electrical and Computer Engineering

4. **Text book, title, author, and year**  
none.

5. **Specific course information**  
   a. **brief description of the content of the course (catalog description)**  
      Completion of design project started in ENGR 696. Work is done with maximum independence under supervision of a faculty advisor. Oral and written project reports required.
   
   b. **prerequisites or co-requisites**  
      ENGR 696: Engineering Design Project I
   
   c. **indicate whether a required, elective, or selected elective course in the program**  
      Required for Computer Engineering  
      Required for Electrical Engineering  
      Required for Mechanical 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.**  
      • 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.

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, b, 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 and written communications
• Costs
• Professional ethics
• Professionalism
• Career seminars by engineering professionals