1. **Course number and name**
   COE 397 – Professional Training in Computer Engineering

2. **Credits and contact hours**
   0 credit hours, 0 contact hours

3. **Instructor's or course coordinator's name**
   Dr. Tamer Shanableh

4. **Textbook, title, author, and year**
   None

   Other supplemental materials
   None

5. **Specific course information**
   a. **Brief description of content of the course (catalog description)**
      Requires a minimum of five weeks of approved professional experience. Work undertaken must be documented in a formal report to the department by the beginning of the following term. Graded as Pass/Fail.

   b. **Prerequisites or co-requisites**
      Prerequisites: Junior II standing and approval of internship coordinator for the major

   c. **Indicate whether a required, elective, or selected elective course in the program**
      Required

6. **Specific goals for the course**
   a. **Specific outcomes of instruction**
      This course requires the student to demonstrate the following:
      1. Develop an understanding of computer engineering practices and interpersonal skills by interacting with supervisors and colleagues
      2. Apply knowledge of mathematics, science, and engineering to solve assigned problems in the workplace
      3. Learn independently and see the value of continuous learning in order to maintain technical and professional competency
      4. Use available company resources to understand technical, economic, environmental, and safety information related to the company
      5. Observe and practice professional ethics
      6. Write a professional report including a daily/weekly journal.

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course

This course contributes in a significant way to the accomplishment of the following program outcomes:

Program outcome	Emphasis in this course
(a) an ability to apply knowledge of mathematics, science, and engineering	Placement dependent
(b) an ability to design and conduct experiments, as well as to analyze and interpret data	
(c) 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	
(d) an ability to function on multidisciplinary teams	●
(e) an ability to identify, formulate, and solve engineering problems	◑
(f) an understanding of professional and ethical responsibility	●
(g) an ability to communicate effectively	●
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	●
(i) a recognition of the need for, and an ability to engage in life-long learning	●
(j) a knowledge of contemporary issues	◑
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	◑

Emphasis: ● High; ◑ Medium; ○ Low; Blank – Nothing Specific Expected

7. Brief list of topics to be covered

None