1. I SY E 476, Industrial Engineering Projects
2. Credits : 3    Contact Hours : 2.5
3. Textbook and Materials : No textbook, all required material is on the course webpage

a. Other Supplemental Materials : None

- Specific Course Information :
  
a. Brief description of the content of the course (Course Catalog Description) : Complete design of an industrial engineering system in a real world setting, e.g., manufacturing, hospital, communications, food processing, distribution, transportation, etc.
b. Pre-requisites or Co-requisites : Ind Engr 320, 321, 349; EPD 397; or cons inst
c. This is a Selected Elective course.

- Specific Goals for the Course :
  
a. Course Outcomes :

  1. To identify a client's problem, define a scope of work, investigate how others have solved similar problems, apply I.E knowledge to formulate a project plan, collect data to address the scope of work, design a problem solution, prepare a final report, present progress and final reports.

- ABET Student Learning Outcomes :

  (a) Ability to apply mathematics, science and engineering principles.
  (b) Ability to design and conduct experiments, analyze and interpret data.
  (c) Ability to design a system, component, or process to meet desired needs.
(d) Ability to function on multidisciplinary teams.
(e) Ability to identify, formulate and solve engineering problems.
(g) Ability to communicate effectively.
(i) Recognition of the need for and an ability to engage in life-long learning.
(k) Ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

- **Brief List of Topics to be Covered:**

  Problem identification and scope of work development, Investigate how others have solved similar problems and give a progress report to class, Apply I.E knowledge to formulate a scope of work and project plan, Collect data and design a problem solution, Prepare a final report, Submit final report to client and instructor