

ENGR 3100: Internship in Engineering

This course is a technical elective.

Course Coordinator:

Gene Dixon

Catalog Description:

Minimum of 150 hours of supervised work or project experience in engineering. May include industry or service learning activities and be repeated for credit as a technical elective.

Course Structure:

The course provides a experience in an industrial, service learning or research setting. May be repeated for credit as technical elective.

Prerequisites:

Consent of instructor.

Required Materials:

Internship Logbook or Laboratory Notebook per project requirements. Other materials determined by supervisor or mentor instructor based on project requirements.

Course Outcomes:

Upon completion of this course each student will be able to:

- Demonstrate knowledge of the engineering work place and describe critical factors related to a project or the organization, including:
 - Organization purpose.
 - Organizational structure.
 - Project or work assignment purpose.
 - Measures of success both personal and technical.
 - Personnel policies of organization
 - Methods used to communicate with employees and maintain morale.
 - Develop a deeper understanding of academic course materials.
- Students will:
 - Define internship goals with supervisor, mentor, or advisor
 - Achieve these goals through work guided by supervisor, mentor or advisor
 - Research and analyze attributes of the internship organization or research area
 - Provide logs, notes and reports describing the progression of the internship
 - Develop final notebook that will describe goals, duties, and thoughts
 - Present summary report and evaluation of internship experience

Laboratory/Recitation Topics:

Based on internship requirements.

Relevant Program Outcomes

Graduates of the engineering program will demonstrate

- a) an ability to apply knowledge of mathematics, science, and engineering
- b) an ability to design and conduct experiments, as well as to analyze and interpret data.

- e) an ability to identify, formulate and solve engineering problems
- f) an understanding of professional and ethical responsibility.
- g) an ability to communicate effectively.

Professional Component Content:

Math/Science: 0; Engineering: 1 credit; General Education: 0

Assessment Requirements:

Student Work Samples:

- Presentations
- Technical Reports

Targeted Exam Questions: N/A

Student Course Survey

Last Review:

May 6, 2008, Paul Kauffmann