

MECH 4370: Pre-Professional Experience, Spring 2023

CRN: 21908

Credit Hours: 3.0

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Description:

This course is 3.0 credit hours and is intended to assess the type of work assigned during the internship, ensure that the students learned more engineering skills, and award credits for the students for completing professional engineering work in the industry. We can list the benefits that the students can gain as:

- 1- Practice engineering roles in the field or an office, depending on the type of work.
- 2- Gain more knowledge in certain areas of engineering or a combination of more than one area.
 - Solid Mechanics Area
 - Thermal-fluid Area
 - Electro-Mechanical Area
 - Aerospace Area
- 3- The students will earn credits for their professional experience.
- 4- The students will earn a good income for the internship period; most entities/ companies would pay for the relocation and another premium.

Required documents to submit are:

- 1- Internship Credit form signed by mentor faculty and Department
- 2- Offer letter from the company.
- 3- The essay describes what they learned during the internship from engineering concepts.

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 - 5- Most students would get a job offer letter from the same company afterward to start a full-time job after graduation.

Assessment Tools:

- 1- Pre-evaluation for the type of internship and pre-approval for the student are required before enrolling in the course. The internship should be strong enough to be accepted by well-known names/ companies.
- 2- Essay describing the type of work completed and performed under a supervisor on the site.
- 3- Offer letters are required and part of the assessment tool because some entities describe the type of task and duties assigned to the student during the internship.

Participants will be able to:

- 1- Recognize the key principles behind learning and implement the fundamental Engineering concept to their work.
- 2- Learn more about professional work and may require knowledge in another discipline.
- 3- Connect with more people in the field and build a network connection. Build confidence for the student.
- 4- Expose to real engineering problems, and may require them to participate in solving in it.
- 5- Earn a good income during the internship.
- 6- May get an extended offer to a full-time job.
- 7- Learn to work in teams.