

Co-op Work Experience in Chemical Engineering

ECH 4949

Class Periods: N/A

Location: N/A

Academic Term: Fall 2025

Instructor:

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Office: CHE Admin Building 110

Office Hours: Email for appointment

Course Description

Practical co-op work experience under approved industrial supervision, as set forth in college regulations. 0-3 credits, repeatable (S-U). However, a maximum of 3 credits from ECH4949 and ECH 4948 can count towards the Chemical Engineering degree. For example, a student who has earned 1 credit of ECH 4948, can only have 2 credits of ECH 4949 count towards the degree.

Course Pre-Requisites/Co-Requisites

None

Course Objectives

Part-time or full-time engineering work experience to allow students to gain practical engineering skills and to provide them with the opportunity to receive chemical engineering technical elective credit toward their degree.

Materials and Supply Fees

None

Professional Component (ABET):

N/A

Relation to Program Outcomes (ABET):

Outcome	Coverage*
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	
3. An ability to communicate effectively with a range of audiences	
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	
5. An ability to function effectively on a team whose members together provide leadership, create a	

collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	

*Coverage is given as high, medium, or low. An empty box indicates that this outcome is not covered or assessed in the course.

Required Textbooks and Software

None

Recommended Materials: None

Attendance Policy, Class Expectations, and Make-Up Policy

Excused absences are consistent with university policies in the undergraduate catalog (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>) and require appropriate documentation.

The student will maintain appropriate working hours as determined by her/his supervisor and maintain contact with the Chem E Department Undergraduate Coordinator or the Chem E Academic Advisor.

The student chooses how many credits to register for, from a minimum of 0 to a maximum determined by the total work hours. The maximum is:

- 1 credit for 133 hours of work (e.g., 40 hours per week for 3.3 weeks),
- 2 credits for 267 hours of work (e.g., 40 hours per week for 6.7 weeks),
- 3 credits for 400 hours of work (e.g., 40 hours per week for 10 weeks).

These credits count as Chemical Engineering technical elective credits. However, a maximum of 3 credits from ECH4948 and ECH 4949 can count towards the Chemical Engineering degree. For example, a student who has earned 2 credits of ECH 4948, can only have 1 credit of ECH 4949 count towards the degree.

Evaluation of Grades

The grade for this co-op experience (S or U) will be determined by the Chem E Department Undergraduate Coordinator. In order to receive a grade of Satisfactory (S), a short (approx. 500 words) report written by the student must be submitted before the end of the semester. To earn a satisfactory grade, the work performed must have provided engineering technical experience and the report must be well written and organized.

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Commitment to a Positive Learning Environment

The Herbert Wertheim College of Engineering values varied perspectives and lived experiences within our community and is committed to supporting the University's core values.

If you feel like your performance in class is being impacted, please contact your instructor or any of the following:

- Your academic advisor or Undergraduate Coordinator
- HWCoe Human Resources, 352-392-0904, student-support-hr@eng.ufl.edu
- Pam Dickrell, Associate Dean of Student Affairs, 352-392-2177, pld@ufl.edu

Academic Policies & Resources

More information on UF academic policies and campus resources is available at <https://go.ufl.edu/syllabuspolices>.