

ME 497 HONORS COURSE ENROLLMENT FORM

A. Name _____ PSU 9-Digit ID No. _____
PSU E-mail _____ Phone No. _____
Major _____ Concurrent Major _____

B. If the thesis supervisor has been identified, please provide a short description of the work to be performed (see syllabus on back of this registration form):

Supervisor's Name: _____ Date: _____

Supervisor's Signature: _____

C. If the thesis supervisor has not been identified, please provide a list of your interests and potential supervisors:

When you have completed this form, please return it to the Undergraduate Programs Office in 139 Reber Building. After doing so, you will be enrolled in ME 497, the ME Honors lecture course taught by Dr. Jacqueline O'Connor.

Undergraduate Office Use Only:

ME 497: Class # _____

Date Enrolled: _____ by _____
(initials)

ME 497 Syllabus Proposal

Course sequence description: This course sequence should be taken by Schreyer Honors students in Mechanical Engineering, preferably in their junior and senior years. The goal of this sequence is to provide students with an overview of the research and honor thesis process, as well as general engineering practices and career advice.

Course sequence credit breakdown:

- Spring semester, junior year - 1 credits seminar (ME 497)
- Fall Semester, senior year - 3 credits of research (ME 494H)
- Spring semester, senior year - 2 credits research (ME 494H)

Co-requisite: A thesis supervisor must be identified within the first four weeks of the course.

Classroom time: 1 hour per week, 15 weeks of semester for each seminar credit.

Instructor: An ME Honors advisor will be the lead instructor and main lecturer (identified from the four SHC ME advisors, on a rotating basis by semester). Additional lecturers will be identified both internally and externally, to cover approximately half of the lectures.

Role of the thesis supervisors: The student's thesis supervisor must be kept in the loop during the entire course. Their main role is same as their current role, but the secondary goal of this course is that burden on the thesis supervisor will be reduced as a result of providing guidance to the student throughout this course sequence on thesis structure, writing, and research.

Text: No textbook, but readings and resources will be provided in the form of handouts or electronically by each instructor.

Assignments: Students are assigned the literature review process after week 2. There will be interim deadlines and then a final literature review due at the end. The students should also have to present their literature review in the final two classes. Mandatory meetings with their thesis supervisor will be scheduled throughout the semesters; we will check on these meetings via emails from the supervisor. The supervisor will be responsible for helping the students with each of the assignments. Proposed assignment deadlines:

Seminar 1: Spring semester, Junior Year:

- Week 4: 1-page description of thesis project with thesis supervisor signature page
- Week 6: bibliography list (in proper format for their discipline)
- Week 7: rough draft of thesis proposal
- Week 8: final draft of thesis proposal with supervisor signature page
- Thesis proposal deadline- date set by Schreyer Honors College
- Week 12: rough draft of literature review due
- Week 14/15: presentation of literature review
- Finals week: final draft of literature review with thesis supervisor signature page

Seminar 2: Fall Semester, Senior Year:

- Week 2: semester goals statement for research and writing with supervisor signature page
- Week 8: thesis outline with supervisor signature page
- Week 12: methods section draft
- Week 13-15: research update presentation
- Finals week: final draft of methods section with supervisor signature page