

# ME 494H HONORS THESIS SUBSTITUTION FOR THE CAPSTONE DESIGN PROJECT PETITION

A student wishing to enroll must complete **Part A**, of this form and consult with his/her Honor's Adviser (**Part B**) and Project Supervisor (**Part C**). If more space is needed, please use an attachment.

\*Once signatures by Honor's Adviser and Project Supervisor are obtained, please turn form into 140 Reber Building.

A. Name \_\_\_\_\_ PSU 9-Digit ID No. \_\_\_\_\_  
Major \_\_\_\_\_ Concurrent Major \_\_\_\_\_ E-mail: \_\_\_\_\_  
Local Address \_\_\_\_\_

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## DESIGN PROJECT COURSE SUBSTITUTION

The capstone design project is culminating experience allowing the students to apply their engineering knowledge to an open ended activity. Most students satisfy the requirement by enrolling in ME 440W. Substituting 3 credit courses to satisfy the requirement such as Honors Thesis (\*\*494H) or a special topics course (e.g., \*\*497) is allowable by petition that must be approved by the student's advisor and the Professor-in-Charge of Undergraduate Studies provided the student can demonstrate:

1. The course substitution has similar course objectives as ME 440W:
    - a. To apply academic training and education to provide a professional engineering solution to a real life problem,
    - b. Implement the design process to a professional engineering problem,
    - c. Work effectively in a team that includes co-workers, customers and vendors,
    - d. Communicate well using verbal, written and electronic methods.
  1. The student has the necessary background to meet the project technical needs.
  2. The student must have the prerequisites common for ME 440W (ME 340) prior to enrolling in the substituted course.
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Request:  OPTION 1

- 3 credits of Capstone Design Project, if the effort meets the criterion stated above is satisfied, and
- 3 credits of Engineering Technical Elective (ETE) or General Technical Elective (GTE).

- OR -

OPTION 2

- 3 credits of Engineering Technical Elective (ETE) and 3 credits of General Technical Elective (GTE).
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Justification: Please justify, in detail and in outline format, how your project meets the intent of the senior capstone design course.

1. The course substitution has similar course objectives as ME 440W:
  - a. To apply academic training and education to provide a professional engineering solution to a real life problem:

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Additional space to continue justification on the next page

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Justification Continued:

b. Implement the design process to a professional engineering problem:

c. Work effectively in a team that includes co-workers, customers and vendors:

d. Communicate well using verbal, written and electronic methods:

2. The student has the necessary background to meet the project technical needs.

3. The student must have all prerequisites completed for ME 440. The prerequisite for ME 440W is ME 340. Please indicate the semester ME 340 was completed: \_\_\_\_\_

\*Concurrent Requirements: ENGL 202C, IE 312

## **ME 494H PROJECT REGISTRATION FORM**

**Student Instructions:** A student may not register for ME 494H unless he/she has obtained prior permission from a member of the ME faculty who will serve as the student's project supervisor. After obtaining this permission, the student will fill out the statements below and obtain their advisor's signature as well as the signature of the faculty member supervising their research and departmental approval. The approved form must be turned in at the Undergraduate Programs Office in 140 Reber Building. After doing this, the student will be registered for the appropriate section of ME 494H.

**Faculty Instructions:** ME 494H can only be supervised by ME faculty with at least the rank of Assistant Professor. Faculty supervisors should carefully review the qualifications of each student to make sure he/she meets the current ME requirements for taking ME 494H. Faculty unsure of the requirements may check with the Associate Head of Undergraduate Programs in 140 Reber Building.

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**Statement of work to be performed:**

**Equipment & Laboratory Facilities Required for the Project:**

# ME 494H PROJECT REGISTRATION FORM

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Student Name: \_\_\_\_\_ PSU 9-Digit ID #: \_\_\_\_\_

List the Semester you completed ME 497 (1 credit course): \_\_\_\_\_

Indicate below the semesters to be enrolled in ME 494H (i.e., Spring 2020) and how you wish to split your remaining 5 credits over the two semesters:

Semester	Number of Credits	Date Student Was Enrolled

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Student's Signature \_\_\_\_\_ Date: \_\_\_\_\_

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**B. Recommendation of Honors Adviser:**

Honors Adviser's Signature \_\_\_\_\_ Date: \_\_\_\_\_

Print Name \_\_\_\_\_ Email Address: \_\_\_\_\_

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**C. Recommendation of Project Supervisor:**

Project Supervisor Signature \_\_\_\_\_ Date: \_\_\_\_\_

Print Name \_\_\_\_\_ Email Address: \_\_\_\_\_

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**D. Recommendation of Department Head or Representative:**

Approved       Declined       Additional Information Needed

Comment:

Departmental Signature \_\_\_\_\_ Date \_\_\_\_\_

Degree Audit Changed By \_\_\_\_\_ Date \_\_\_\_\_