

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

A student wishing to file a petition 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 approval from Honor's Adviser and Project Supervisor are obtained, please email the form to lyarger@enr.psu.edu.

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

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 either ME 440W or ME 441W. Substitute 3 credit courses to satisfy the requirement such as Honors Thesis (**494H) or a special topics course (e.g., **497) are 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/ME 441W:
 - 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 441W (ME 340 and ENGL 202C) 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/ME 441W:
 - a. To apply academic training and education to provide a professional engineering solution to a real life problem:

Additional space to continue justification on the following page →

M E 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 have both their advisor and the faculty member supervising their research type their names at the bottom of this form. The approved form must be emailed to lyarger@engr.psu.edu. After doing this, the student will be registered for the appropriate section of M E 494H.

Faculty Instructions: ME 494H can only be supervised by MNE 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 MNE requirements for taking ME 494H. Faculty unsure of the requirements may check with the Professor in Charge of the Undergraduate Programs for Mechanical and Nuclear Engineering, in 139 Reber Building.

Statement of work to be performed:

Equipment & Laboratory Facilities Required for the Project:

Additional space on the following page —————>

ME 494H PROJECT REGISTRATION FORM

Student Name: _____ PSU 9-Digit ID #: _____

Total Number of ME 494H credits to be taken over **both** semesters: _____ Section #: _____

Semesters Enrolled in Course (i.e., FA10 / SP11): _____ / _____ Schedule #: _____

Additional Space (if needed):

B. Recommendation of Honors Adviser:

Approved by Honors Adviser: _____

Email Address: _____ Date: _____

C. Recommendation of Project Supervisor:

Approved by Project Supervisor: _____

Email Address: _____ Date: _____
