

Application to Certify Completion of a Mechanical Engineering Minor

I. Applicant's Information--Please supply the following:

Name: _____

Cornell ID#: _____

Email Address: _____

Phone: _____

Major: _____ Faculty Advisor: _____ Projected Graduation Date (month/year): _____

Minor applying for: _____

Year of Cornell Courses of Study/Engineering Handbook used for verifying minor: _____

II. Courses Applying to Minor--Please list each course you have taken, or plan to take, which will apply to the engineering minor program as described on the reverse of this form. Include the semester/year in which you completed, or plan to complete, each course. Include the grade and number of credits you received for completed courses.

NOTE: The minor must be offered by a department other than that which offers your engineering major(s), and is contingent upon successful completion of Bachelor of Science degree requirements.

	<u>Dept./Course Number</u>	<u>Semester/Year Completed</u>	<u>Credits</u>	<u>Grade</u>
1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____

III: Please sign below and submit this completed form & transcript to the Administrative Contact for the department offering the minor.: By signing, you certify that the information supplied on this form is accurate and that you have completed/will complete the necessary coursework and complied with the terms of the engineering minor program.

Student's signature: _____ Date: _____

For use by the Administrative Contact:

Administrative Contact certifying minor: _____ Date: _____

Upon initial submission of your minor application form, your course selections and any available grades will be reviewed and pre-approved for use toward the minor. This form is a working copy and may be edited and resubmitted for review at any time. At the end of your final semester, when grades have been submitted for all courses listed above, your minor application will go through a final review, after which you will receive notification from the office of the administrative contact.

Original--Engineering Registrar

Copies: Student, Undergraduate Coordinator of student's major program, Undergraduate Coordinator of student's minor program.

Minor in Mechanical Engineering

Offered by: Sibley School of Mechanical and Aerospace Engineering

Administered by: MAE undergraduate coordinator, 108 Upson Hall, 255-3573, np18@cornell.edu

Eligibility: All undergraduates, except those majoring in Mechanical Engineering. **Students intending to earn a minor in Mechanical Engineering should seek advice and pre-approval of their minor academic program from the associate director for undergraduate affairs in MAE. Contact np18@cornell.edu, 108 Upson Hall, before taking courses toward the minor.**

Educational Objectives:

The primary educational objective of this minor is to give students from outside MAE the necessary skills and tools to interact technically with mechanical engineers on various multidisciplinary fronts. This minor has the appearance of being very broad since it encompasses nearly all of the MAE upper-division courses. However, the prerequisites of the upper-division courses may dictate that a student concentrate in a sub-area of mechanical engineering. A recommended strategy for designing a minor is to select a few upper-level courses of interest and work backward from them to determine what courses will be needed as prerequisites or prerequisites of prerequisites (Note: Instructors may waive certain prerequisites in some circumstances). The prerequisite structure dictates that most curricula will focus either on fluids/thermal systems or mechanical systems/design courses.

Requirements:

At least six (6) courses (≥ 18 credits) from among the following: MAE courses at the 2000+ level; ENGRD 2020: Mechanics of Solids; and MAE 2030: Dynamics.

Rules for Selecting Courses:

The selection of courses must satisfy the following three requirements:

- At least two courses must be numbered above 3000.
- At least one course must be either (i) numbered above 5000 or (ii) numbered above 3260 and have as its prerequisite ENGRD 2020, MAE 2030, or an MAE course.
- Each course must be worth at least 3 credits.

All courses used to satisfy the ME minor must be MAE courses, ENGRD 2020, or MAE 2030. No substitutions will be accepted from other departments at Cornell or elsewhere. Transfer credit cannot be used to satisfy the ME minor. MAE 1110: Naval Ship Systems, or MAE 4980: Teaching Experience in Mechanical Engineering, may not be used to satisfy the ME minor. Credits from MAE 4900 or 4291 may be used for at most one course in the minor.

Academic Standards:

A grade of C- or better in each course.

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