

Minor in Mechanical Engineering

Offered by: Sibley School of Mechanical and Aerospace Engineering

Administered by: MAE Assistant Undergraduate Assistant, Ashley Blank, 125 Upson Hall,
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Eligibility: All undergraduates, except those majoring in Mechanical Engineering. Pre-approval of minor plan is required.

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 the following: MAE courses at the 2000+ level, ENGRD 2020: Mechanics of Solids, or ENGRD 2210: Thermodynamics.

Academic Standards:

A grade of C- or better in each course.

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, ENGRD 2210, 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 ENGRD 2210. At most one mechanical engineering course from outside Cornell can be used, by petition. 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.