B.S. in Mechanical Engineering with an Robotics option Curriculum of Robotics Option, 2025-2026

ical Elective 2 (3)
ical Elective 3 (3)
ical Elective 4 (3)

Color code:

Design Courses

Mechanical, Materials, Processes

Electrical, Measurements, Controls

Thermal/Fluid Sciences

Thermal, Hala Sciences

Engineering Orientation, Computations

Humanities/Social Sciences, Writng

Mathematics

Basic Science

F = fall semester, S = spring semester

Pre = Pre-requisite

Co = Co-requisite

Pre/Co = Pre-requisite or Co-requisite

Non-Technical Elective:

All MAE students must take one humanities course and two social science courses from the University education requirement;

PHIL 2135, and two additional humanities or social science or non-technical courses from SEAS/MAE Department's pre-approved list of electives. Please see the "Non-Technical Elective Requirement" in the bulletin.

Technical Elective: Shall be selected from among the MA 3000, 4000, or 6000 level courses, except that the following are excluded: MAE 3171, 4172, 6298, 6999. All technical electives must be approved by the undergraduate advisor. Technical courses from other departments (3000, 4000, or 6000 level) may be permitted, on a case-by-case basis, if approved by both the undergraduate advisor and department chair

ASME membership recommended FE Exam recommended in the senior year

Robotics Elective:

Robotics option students must take one 3-credit course from the following list: MAE 6246 Electromechanical Control System
Design, MAE 6254 Applied Nonlinear Control,
BME 4835 Introduction to Assistive Robotics,
BME 4489 Socially Assistive Robotics &
Interactive Learning, or a (3000, 4000, or 6000 level) technical course relevant to robotics if approved by the faculty advisor and department chair. Approval must be obtained before registering for the selected course. The selected course must be listed in the student's SEAS Undergraduate Advising Form.