

Mechanical Engineering Option Requirements
Advanced Engineering Electives
June 2026

List of Approved Courses:

ME72ab*, ME90abc*, ME111, ME117, ME119, ME129, ME133, ME134, ME169, ME75abc*, ME146
ME101, ME102, Ae103, Ae105, ME118, ME120, Ae121, Ae/CE165, Ae/CE221, AM/CE151
APh/MS105, APh109
CE160, Ae/CE221
ChE103, ChE105
CDS 110, CDS131, CDS231, CDS232, CDS233
EE110
E/ME/MedE 106
E/SEC 103
MS115, ME116

Option 1: Pre-approved tracks:

Choose at least 27 units from any one track (depth); and at least 9 units each from two other tracks (breadth):

- Design, Systems, and Mechatronics: ME72*, ME75*+, E/SEC 103, ME106, Ae105, EE110
- Dynamics and Control: Ae103, AM151, ChE105, CDS110, CDS131, CDS212, CDS231, CDS232, CDS233
- Fluids and Transport: ME101, ME146, ME232, Ae239, ChE103
- Robotics: ME129, ME133, ME134, ME169, ME234, ME235
- Solids and Materials: ME102, ME116, Ae165, APh109, MS115
- Structures: CE160, Ae/CE221
- Thermodynamics and Energy: ME111, ME117, ME118, ME119, ME120, APh/MS105, Ae121
- Thesis: ME90*+

Option 2: Choose 45 units from the list of approved courses, subject to the approval of the advisor and the option representative.

Note: The list of approved courses will be updated periodically. If you want to substitute a class not listed here (for example, from study abroad), you must obtain the approval of the option representative.

*If ME72, ME75, and /or ME90 are chosen, they cannot be used to fulfill the capstone design requirement.

+ ME75 and ME90 must be taken for at least 27 units (i.e., all three quarters) in order to be counted as elective units for depth. If ME75 is to be counted as an advanced elective or in place of the capstone, the student must take it as a junior or senior.