

Mechanical Engineering Option Requirements
Advanced Engineering Electives
May 2020

List of Approved Courses:

ME72*, ME90*, ME/EE/EST117, ME119, ME/CS/EE129, ME/CS/EE133, ME/CS/EE134
CS/EE/ME75*
Ae/APh/CE/ME101, Ae/AM/CE/ME102 Ae 103, Ae105, Ae/ME118, Ae/ME120, Ae121, Ae165, Ae/CE221
AM/CE151
APh/MS105, APh109, APh/Ph115, APh/PH/Ae116
CE 90, CE160
ChE103, ChE105, ChE/BE/MedE112
CDS 110, CDS112, CDS131, CDS231, CDS232, CDS233
EE110
E/ME/MedE 105
E/SEC 103
MS115, MS/ME/MedE116

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*+, CS/EE/ME75*+, E/SEC 103, E/ME/MedE105ab, Ae105, ChE112
- Dynamics and Control: Ae103, AM151, CDS110, CDS112, ChE105, CDS131, CDS231, CDS232, CDS233
- Fluids and Transport: Ae/APh/CE/ME101, CE112, ChE103, APh115, APh116
- Robotics: ME/CS/EE129, ME/CS133abc, ME/CS/EE134, EE110
- Solids and Materials: Ae/AM/CE/ME102abc, MS115, MS/ME/MedE116, Ae165ab, APh109
- Structures: CE90, CE160, Ae/CE221
- Thermodynamics and Energy: ME/EE/EST117, Ae/ME118, ME119, Ae/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.