

**Mechanical Engineering Undergraduate Option Requirements**  
**Advanced Engineering Electives**  
**Oct. 10, 2018**

**List of approved courses**

ME 72\*, 75\*, 90\*, 101, 102, 103, 105, 109, 116, 118, 119, 120, 133, 134  
Ae 103, 105, 121, 221  
AM 151  
APh 105, 109, 115, 116  
ChE 103, 105, 112  
CDS 110, 112, 131, 231, 232, 233  
MS 115

**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: ME 72\*\*, ME 75\*\*, ME 103, ME 105, Ae 105, ChE 112.
- Dynamics and Control: Ae 103, AM 151, CDS 110, CDS 112, CDS 131, CDS 231, CDS 232, CDS 233, ChE 105.
- Fluids and transport: ME 101, CE 112, ChE 103, APh 115, APh 116.
- Robotics: ME 133, ME 134.
- Solids and Materials: ME 102, MS 115, ME 116, APh 109, Ae 165
- Structures: Ae 221.
- Thermodynamics and Energy: ME 109, ME 118, ME 119, ME 120, APh 105, Ae 121.
- Thesis: ME90\*\*.

**Option 2:** Choose 45 units from the list of approved courses subject to 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.

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\* 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.