Mechanical Engineering Undergraduate Curriculum

**FRESHMAN YEAR**
- **FALL**
  - MATH 1A 4
  - CHEM 1A/L or CHEM 4A/L 4
  - E25 2
  - R&C A 4
- **SPRING**
  - MATH 1B 4
  - PHYS 7A 4
  - E7* 4
  - R&C B 4

**SOPHOMORE YEAR**
- **FALL**
  - MATH 53 4
  - PHYS 7B 4
  - E26 2
  - E27 2
  - H/SS 3-4 (e.g. AC)
- **SPRING**
  - MATH 54 4
  - ME 40 3
  - ME C85 3
  - R&C B 4

**JUNIOR YEAR**
- **FALL**
  - ME 104 3
  - ME 106 3
  - ME 108 4
  - ME 132 3
  - H/SS (3-4) (e.g. Upper Div)
- **SPRING**
  - EE 49 4
  - ME 109 3
  - ME 130 3
  - ME 135 3
  - H/SS (3-4) (e.g. Upper Div)

**SENIOR YEAR**
- **FALL**
  - ME 102 4
  - ME 103** 4
  - ME TECH ELEC 3-4
  - ME TECH ELEC 3-4
- **SPRING**
  - ME 102B 4
  - ME TECH ELEC 3-4
  - ME TECH ELEC 3-4
  - ME TECH ELEC 3-4

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**GENERAL NOTES**
- If prereqs are met, students are encouraged to take E7 in Freshman Fall.
- Math 53 & 54 must be completed before taking any upper div ME course.
- Please be aware that though courses may not be listed as official prereqs, upper div courses are taught with the expectation that you have taken lower div courses.
- **Planned**

**GENERAL TECHNICAL ELECTIVE NOTES**
- 15 Units of tech elective are required.
- 1 Course must be from the Design List.
- 1 Course must be from the QS list.
- Only 3 units of the 15 can be from lower div courses. A lower div tech is not required.
- Up to 6 of the 15 units may be taken from outside the dept; the rest must be ME-sponsored.
- ME 191K is not a technical course; it is an H/SS.
- For a list of possible courses, please see http://www.me.berkeley.edu/undergraduate/course-information/undergraduate-technical-electives

**LOWER DIV OPTIONS**
- Astro 7A, 7B
- BioE 10
- Bio 1A & 1AL, 1B
- Chem 1B, 3A*, 3B*, 4B
- Civ Eng 11, 60, 70, 93
- CS C8, 61A, 61B, 61C, 70
- Des Inv 15, 90E
- EPS 50
- EE 16B, 20
- Engin 15, 45*
- Math 55
- MCB 32*
- Physics 7C
- Stat 20, 21
- *Lab section not required.

**DESIGN COURSES**
- All of the courses below are considered ME-Sponsored.
- Engin 128
- ME 101
- ME 110
- ME C117
- ME 119
- ME 130
- ME 135
- ME 146
- ME 165
- ME C176
- ME C178

**QUANTITATIVE SCIENCE (QS)**
- This requirement seeks to endow students with QS skills to complement the intensive hands-on courses required in the upper division.
- All of the courses below are considered ME-Sponsored.
- ENG 117
- ENG 177
- ME 120
- ME C180
- Additional courses outside MechE can be found at https://www.me.berkeley.edu/undergraduate/course-information/undergraduate-technical-electives#quantsci

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<table>
<thead>
<tr>
<th>Course</th>
<th>Prereqs</th>
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<tbody>
<tr>
<td>CHEM 1A</td>
<td>High school chemistry recommended</td>
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<tr>
<td>ENG 25</td>
<td>-</td>
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<td>ENG 26</td>
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<tr>
<td>ENG 27</td>
<td>ENG 25 (co-requisite)</td>
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<tr>
<td>ENG 7</td>
<td>MATH 1B (co-requisite)</td>
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<tr>
<td>EE 49</td>
<td>Engineering 7 or Computer Science 10 or equivalent background in computer programming (including Computer Science 61A, Data Science 8) Math 1a or equivalent</td>
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<tr>
<td>MATH 1A</td>
<td>3 1/2 yrs HS math, including trigonometry &amp; analytic geometry + satisfactory grade in one of the following: CEEB MAT test, an AP test, the UC/CSU math diagnostic test, or 32.</td>
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<tr>
<td>MATH 1B</td>
<td>MATH 1A</td>
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<tr>
<td>MATH 53</td>
<td>MATH 1B</td>
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<tr>
<td>MATH 54</td>
<td>MATH 1B</td>
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<tr>
<td>ME 102B</td>
<td>E 25, E 26 (junior transfers students are exempt from this requirement), E 27, as well as EE 16A/EE 40/EE 49</td>
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<td>ME 103</td>
<td>MEC85, ME40, EE 100/EE 49/EE 16A/EE 49, &amp; ME 109</td>
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<tr>
<td>ME 104</td>
<td>ENG 7, ME C85</td>
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<tr>
<td>ME 106</td>
<td>ME C85, 104 (co-requisite)</td>
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<tr>
<td>ME 107</td>
<td>102A; senior standing</td>
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<td>ME 108</td>
<td>ME C85</td>
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<td>ME 109</td>
<td>ME 40, 106</td>
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<tr>
<td>ME 132</td>
<td>MATH 53, 54, PHYSICS 7A-7B</td>
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<tr>
<td>ME 40</td>
<td>CHEM 1A, ENG 7, MATH 1B, PHYSICS 7B</td>
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<tr>
<td>ME C85</td>
<td>MATH 53, 54 (concurrent); PHYSICS 7A</td>
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<tr>
<td>PHYSICS 7A</td>
<td>HS physics; MATH 1A; MATH 1B (concurrent)</td>
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<tr>
<td>PHYSICS 7B</td>
<td>7A, MATH 1A-1B, MATH 53 (may be taken concurrently)</td>
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