# Bachelor of Science (BS) in Mechanical Engineering

- **Admissions:** Freshmen = Open / Transfer = Min. Criteria  
  Process: Declaration  
- **Min. Total Credits:** 124 (124 in core & major + 0 in electives)

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<table>
<thead>
<tr>
<th>UHM General Education Core Requirements</th>
<th>Degree Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundations</strong></td>
<td><strong>Bachelor of Science Requirements</strong></td>
</tr>
<tr>
<td>- FW ENG 100, 100A, 190, ESL 100, or AMST 111</td>
<td>- Calculus I &amp; II</td>
</tr>
<tr>
<td>- FS MATH 241</td>
<td>- General Chemistry I with lab &amp; II</td>
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<tr>
<td>- FG (A / B / C)</td>
<td>- General Physics I &amp; II with labs</td>
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<tr>
<td>- FG (A / B / C)</td>
<td><strong>College Requirements</strong></td>
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</tbody>
</table>

**Diversification**
- DA COMG 251
- DH / DL
- DB *not required for ME students.*
- DP CHEM 161, 162, PHYS 170, 272
- DY CHEM 161L, 162L, PHYS 170L, 272L
- DS ECON 120, 130, 131
- DS

* See degree, college and major requirements for courses that can also fulfill these.

<table>
<thead>
<tr>
<th>UHM Graduation Requirements</th>
<th>Can fulfill DA</th>
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<tbody>
<tr>
<td><strong>Focus</strong></td>
<td>COMG 251</td>
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<tr>
<td>- H</td>
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<tr>
<td>- E (300+)</td>
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<td>- O (300+)</td>
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<td>- W (300+)</td>
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**Hawaiian / Second Language**
- The Hawaiian or Second Language requirement is *not* required for students admitted to the College of Engineering.

<table>
<thead>
<tr>
<th>Credit Minimums</th>
<th>Can fulfill DS</th>
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</thead>
<tbody>
<tr>
<td>120 total applicable</td>
<td>ECON 120, 130 or 131</td>
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<tr>
<td>30 in residence at UHM</td>
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<tr>
<td>45 upper division (300+ level) credits</td>
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**Grade Point Average**
- 2.0 cumulative or higher *(Note: Other GPAs may be required)*
- Good academic standing

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**Math Requirements**
- MATH 241*
- MATH 242
- MATH 243
- MATH 244

**Natural Sciences Requirements**
- CHEM 161* / 161L*
- CHEM 162*
- PHYS 170* / 170L*
- PHYS 272* / 272L*

**Grade Point Average**
- 2.0 GPA for all upper division (300+) mathematics, sciences, and engineering courses.

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*This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor. Advising is mandatory every semester for Engineering students.*
# Major Requirements for BS in Mechanical Engineering

**Admission:** Open  
**Application:** Required for students who do not apply straight into the program.  
**Min. major credits:** 75  
**Min. exit GPA:** 2.0 overall and 2.0 in upper division technical coursework.

## Requirements

### Mechanical Engineering Core Courses (66 credits)

- ME 213
- CEE 270 (C, not C-, or higher to advance)
- CEE 271 or ME 271
- EE 160 (or EE 110 or ICS 111)
- EE 211
- MATH 302 or MATH 307
- ME 311 (Pre: C, not C- or higher to advance)
- ME 322
- ME 331
- ME 341
- ME 360, MATH 407, or PHYS 305
- ME 371 or CEE 370
- ME 372
- ME 374
- ME 375
- ME 422
- ME 481
- ME 482
- PHYS 274

### Mechanical Engineering Technical Elective Courses (9 credits)

- Technical Elective
- Technical Elective
- Technical Elective

### Technical Elective Options

- Any ME 400-level electives.
- One of the three may be non-ME course (with chair’s approval) or BIOL 171 (without approval).
- Another may be a ME 600-level courses (with a minimum of 3.0 GPA and chair’s approval) or ME 499.

### Notes

College of Engineering: Holmes 250; (808) 956-8404; info@eng.hawaii.edu; www.eng.hawaii.edu  
Director of Academic Affairs: Tep Dobry, PhD; Holmes 240A; (808) 956-8404; tep@hawaii.edu