



**University of Hawai'i at Mānoa**  
**College of Engineering Program Sheet 2014-2015**  
**Bachelor of Science (BS) in Mechanical Engineering**  
**Admissions: Freshmen = Open / Transfer = Min. Criteria    Process: Declaration**  
**Min. Total Credits: 125 (125 in core & major + 0 in electives)**

UHM General Education Core Requirements
<b>Foundations</b>
<input type="checkbox"/> FW
<input type="checkbox"/> FS
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<b>Diversification</b>
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB <i>not required for ME students.</i>
<input type="checkbox"/> DP
<input type="checkbox"/> DY
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>
UHM Graduation Requirements
<b>Focus</b>
<input type="checkbox"/> H
<input type="checkbox"/> E (300+)
<input type="checkbox"/> O (300+)
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W
<input type="checkbox"/> W (300+)
<input type="checkbox"/> W (300+)
<b>Hawaiian / Second Language</b>
<ul style="list-style-type: none"> <li>The Hawaiian or Second Language requirement is <b>not</b> required for students admitted to the College of Engineering.</li> </ul>
<b>Credit Minimums</b>
<ul style="list-style-type: none"> <li>120 total applicable</li> <li>30 in residence at UHM</li> <li>45 upper division (300+ level) credits</li> </ul>
<b>Grade Point Average</b>
<ul style="list-style-type: none"> <li>2.0 cumulative or higher (<i>Note: Other GPAs may be required</i>)</li> <li>Good academic standing</li> </ul>

Degree Requirements
<b>Bachelor of Science Requirements</b>
<ul style="list-style-type: none"> <li>Calculus I &amp; II</li> <li>General Chemistry I with lab &amp; II</li> <li>General Physics I &amp; II with labs</li> </ul>
<b>College Requirements</b>
<b>Admission Requirements for Transfer Students</b>
<ul style="list-style-type: none"> <li>3.0 cumulative GPA</li> <li>Completion of the following courses: <ul style="list-style-type: none"> <li>ENG 100*<sup>FW</sup></li> <li>MATH 241*<sup>FS</sup></li> <li>MATH 242</li> <li>CHEM 161*<sup>DP</sup> / 161L*<sup>DY</sup></li> <li>CHEM 162*<sup>DP</sup></li> <li>PHYS 170*<sup>DP</sup> / 170L*<sup>DY</sup></li> </ul> </li> </ul>
<b>Can fulfill DA</b>
<input type="checkbox"/> COMG 251
<b>Can fulfill DS</b>
<input type="checkbox"/> ECON 120, 130 or 131
<b>Math Requirements</b>
<input type="checkbox"/> MATH 241* <sup>FS</sup>
<input type="checkbox"/> MATH 242
<input type="checkbox"/> MATH 243
<input type="checkbox"/> MATH 244
<b>Natural Sciences Requirements</b>
<input type="checkbox"/> CHEM 161* <sup>DP</sup> / <input type="checkbox"/> 161L* <sup>DY</sup>
<input type="checkbox"/> CHEM 162* <sup>DP</sup>
<input type="checkbox"/> PHYS 170* <sup>DP</sup> / <input type="checkbox"/> 170L* <sup>DY</sup>
<input type="checkbox"/> PHYS 272* <sup>DP</sup> / <input type="checkbox"/> 272L* <sup>DY</sup>
<b>Grade Point Average</b>
<ul style="list-style-type: none"> <li>2.0 GPA for all upper division (300+) mathematics, sciences, and engineering courses.</li> </ul>

*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: 74-76

Min. exit GPA: 2.0 overall and 2.0 in upper division technical coursework.

### Requirements

#### Mechanical Engineering Core Courses (65-67 credits)

- ME 213
- CEE 270 (C, not C-, or higher to advance)
- CEE 271 or ME 271
- MATH 190 (or EE 160)
- MATH 302 or MATH 307
- EE 211
- ME 311
- ME 312
- ME 322
- ME 331
- ME 341 /  ME 342
- ME 360, MATH 407, or PHYS 305
- ME 371 or CEE 370
- ME 372
- ME 374
- ME 375
- ME 402
- ME 422
- ME 480
- ME 481
- ME 482

#### 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 PHYS 274 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