



**University of Hawai'i at Mānoa**  
**College of Engineering Program Sheet 2013-2014**  
**Bachelor of Science (BS) in Computer Engineering**  
**Admissions: Freshmen = Open / Transfer = Min. Criteria Process: Declaration**  
**Min. Total Credits: 122 (122 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 CE 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 Computer Engineering

Admission: Open

Application: Required for students who do not apply straight into the program.

Min. major credits: 71

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

Enrollment in EE courses requires a C- grade, or better, in all prerequisites.

### Requirements

#### Computer Engineering Core Courses (56 credits)

- EE 160
- EE 205
- EE 211
- EE 213
- EE 260
- EE 315
- EE 323 /  323L
- EE 324
- EE 342
- EE 361 /  361L
- EE 468
- EE 367 /  367L
- EE 371
- EE 495
- ICS 141
- MATH 307
- PHYS 274

#### Computer Engineering Projects (6 credits)

- EE 296 (Sophomore standing)
- EE 396 (Junior standing)
- EE 496

#### Engineering Breadth (3 credits; one of the following options)

- CEE 270, ME 311, or a 300+ level course from CEE, ME, OE, or BE.
- 300+ physical or biological science courses (with department's undergraduate curriculum committee approval).

#### Computer Engineering Technical Elective Courses (6 credits)

- Technical Elective
- Technical Elective

6 credits from the following courses, or 3 credits from the following courses and 3 credits of an EE 300+ course:

- EE 406, 469, 491(E,F,G), EE 344 (or ICS 451), EE 449 (or ICS 451), EE 461 (or ICS 431) EE 366, EE 467, ICS 311, 313, 321, 413, 414, 415, 421, 424, 425, 426, 432, 441, 442, 461, 464, 465, 466, 469, 481

### Notes

College of Engineering: Holmes 250; (808) 956-8404; info@eng.hawaii.edu; www.eng.hawaii.edu

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