



**University of Hawai'i at Mānoa**  
**College of Tropical Agriculture and Human Resources Program Sheet 2012-2013**  
**Bachelor of Science (BS) in Biological Engineering**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 128 (124 in core & major + 4 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
<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 Biological Engineering program.</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>

College Requirements
<b>CTAHR Required Set of Interrelated Courses</b>
<input type="checkbox"/> NREM 310
<input type="checkbox"/> Internship or capstone course (BE 481-482)
<b>Credit Minimums</b>
<ul style="list-style-type: none"> <li>124 total applicable</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.*

## Major Requirements for BS in Biological Engineering

Admission: Open

Application: NA

Min. major credits: 103

Min. exit GPA: 2.0 in the major

### Requirements

#### Biological Engineering Required Basic Courses (51 credits)

ECON 120\*DS, 130\*DS, or 131\*DS

MATH 241\*FS

MATH 242

MATH 243

MATH 244

PHYS 170\*DP /  170L\*DY

PHYS 272\*DP /  272L\*DY

CHEM 161\*DP /  161L\*DY

CHEM 162\*DP /  162L\*DY

CHEM 272\*DP /  272L\*DY

BIOL 171\*DB /  171L\*DY

BIOL 172\*DB /  172L\*DY or  MICR 351 /  351L or  BE 120\*DY

BIOL 275/275L, MICR 351/351L, or MICR 485/485L

*MATH 251A-253A may be taken in place of MATH 241-244.*

*MICR 351/351L cannot be counted twice.*

#### Engineering Core Courses (21 credits)

All of the following:

EE 160

EE 211

CEE 270

CEE 271

ME 311

ME 322 or CEE 320

#### Biological Engineering Core Courses (16 credits)

All of the following:

BE 260

BE 350 /  350L

BE 373

BE 481

BE 482

#### Biological Engineering Elective Courses (15 credits)

15 credits of the following:

BE 405

BE 410

BE 411

BE 420

BE 421

BE 431

BE 437

BE 460

BE 470

CEE 355

ME 371

### Notes

CTAHR Office of Academic and Student Affairs: Gilmore 210; (808) 956-8183; (808) 956-6733;

acadaff@ctahr.hawaii.edu; www.ctahr.hawaii.edu

BE Program: AgSci 218; (808) 956-8384; dchr@hawaii.edu; mbbe@ctahr.hawaii.edu; www.ctahr.hawaii.edu/mbbe

BE Undergraduate Advisor: Ryan Kurasaki; AEI 121; (808) 956-7259; rkurasak@hawaii.edu