



**University of Hawai'i at Mānoa**  
**College of Tropical Agriculture and Human Resources Program Sheet 2012-2013**  
**Bachelor of Science (BS) in Plant and Environmental Biotechnology**  
**Specialization: Insect and Pathogen Biotechnology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (120 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
<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>Any four-course combination of language <b>or</b> 2 social sciences courses and 2 biological science courses</li> </ul> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
<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 (MBBE/PEPS/TPSS 499)
<b>Credit Minimums</b>
<ul style="list-style-type: none"> <li>120 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 Plant and Environmental Biotechnology

Specialization: Insect and Pathogen Biotechnology

Admission: Open

Application: NA

Min. major credits: 73 (83 with related requirements)

Min. exit GPA: 2.0 in the major

### Requirements

#### Plant and Environmental Technology Related Requirements (7 credits)

MATH 215\*FS or 241\*FS

NREM 220\*DS

#### Plant and Environmental Technology Core Courses (50 credits)

BIOL 171\*DB /  171L\*DY

BIOL 172\*DB /  172L\*DY

BIOL 275\*DB /  275L\*DY

CHEM 161\*DP /  161L\*DY

CHEM 162\*DP /  162L\*DY

CHEM 272\*DP /  272L\*DY

MBBE 304\*E

MBBE 401

MBBE 402 /  402L

ANSC 446, BIOL 375, or PEPS 371

PHYS 100\*DP /  100L\*DY or  151\*DP /  151L\*DY and  152\*DP /  152L\*DY

MBBE/PEPS/TPSS 499

#### Insect and Pathogen Biotechnology Required Courses (13 credits)

MBBE 412

PEPS 363

PEPS 405

PEPS 421

#### Insect and Pathogen Biotechnology Elective Courses (13-14 credits)

13 credits of the following:

PEPS 403

PEPS 404

PEPS 462

MBBE/PEPS/TPSS 499 credits beyond 3

### Notes

CTAHR Office of Academic and Student Affairs: Gilmore 210; (808) 956-8183/(808) 956-6733;  
acadaff@ctahr.hawaii.edu; www.ctahr.hawaii.edu

PEB Program: Gilmore 211; (808) 956-6997

PEB Undergraduate Advisor: Harry Ako, PhD; AgSci 218; (808) 956-2012; hako@hawaii.edu