



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: Environmental and Microbial Biotechnology
Admissions: Open Process: Declaration
Min. Total Credits: 120 (120 in core & major + 0 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW
<input type="checkbox"/> FS
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
Diversification
<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
Focus
<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+)
Hawaiian / Second Language
<ul style="list-style-type: none"> Any four-course combination of language or 2 social sciences courses and 2 biological science courses <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
Credit Minimums
<ul style="list-style-type: none"> 120 total applicable 30 in residence at UHM 45 upper division (300+ level) credits
Grade Point Average
<ul style="list-style-type: none"> 2.0 cumulative or higher (<i>Note: Other GPAs may be required</i>) Good academic standing

College Requirements
CTAHR Required Set of Interrelated Courses
<input type="checkbox"/> NREM 310
<input type="checkbox"/> Internship or capstone course (MBBE/PEPS/TPSS 499)
Credit Minimums
<ul style="list-style-type: none"> 120 total applicable

*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: Environmental and Microbial Biotechnology

Admission: Open

Application: NA

Min. major credits: 76 (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

Environmental and Microbial Required Courses (11 credits)

CHEM 273 / 273L

MBBE 412

MICR 351 / 351L

Environmental and Microbial Elective Courses (15-19 credits)

15 credits of the following:

BE 431

BIOL 124/124L

CHEM 274/274L

CHEM 445

ENTO 480

GEOG 101/101L

MBBE 420

MICR 431/431L

MICR 461/461L

MICR 475/475L

PEPS/MBBE 403

PEPS 405

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