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

## UHM General Education Core Requirements

### Foundations
- FW
- FS
- FG (A / B / C)
- FG (A / B / C)

### Diversification
- DA / DH / DL
- DA / DH / DL
- DB
- DP
- DY
- DS
- DS

*See degree, college and major requirements for courses that can also fulfill these.*

## UHM Graduation Requirements

### Focus
- H
- E (300+)
- O (300+)
- W
- W
- W
- W (300+)
- W (300+)

### Hawaiian/Second Language
- Any four-course combination of language or 2 social sciences courses and 2 biological science courses
- ________  ________  ________  ________

### Credit Minimums
- 120 total applicable

## College Requirements

### CTAHR Required Set of Interrelated Courses
- NREM 310
- Internship or capstone course (MBBE/PEPS/TPSS 499)

### Credit Minimums
- 120 total applicable

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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:** Aquaculture and Animal Biotechnology  
**Admission:** Open  
**Application:** NA  
**Min. major credits:** 71 (82 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

#### Aquaculture and Animal Biotechnology Required Courses (9 credits)
- BIOL 265/265L
- ZOOL 320 / 320L

#### (PEB) Aquaculture and Animal Biotechnology Elective Courses (16-20 credits)

16 credits of the following:
- ANSC 460
- BE 460
- BIOL 301/301L
- OCN 210
- OCN 331
- ZOOL 475/475L
- 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