Bachelor of Science (BS) in Molecular Biosciences and Biotechnology  
Specialization: Insect and Pathogen Biotechnology  
Admissions: Open    Process: Declaration  
Min. Total Credits: 120 (111 in core & major + 9 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.

### College Requirements

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

**Credit Minimums**
- 120 total applicable

### 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 or physical science courses
- □ □ □ □

**Credit Minimums**
- 120 total applicable
- 30 in residence at UHM
- 45 upper division (300+ level) credits

**Grade Point Average**
- 2.0 cumulative or higher *(Note: Other GPAs may be required)*
- Good academic standing

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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 Molecular Biosciences and Biotechnology

Specialization: Insect and Pathogen Biotechnology
Admission: Open
Application: NA
Min. major credits: 74-75 (81-82 with related requirements)
Min. exit GPA: 2.0 in the major

Requirements

Molecular Biosciences and Biotechnology Related Requirements (7 credits)
- MATH 215* or 241*
- NREM 220*

Molecular Biosciences and Biotechnology Core Courses (50 credits)
- BIOL 171* / 171L*
- BIOL 172* / 172L*
- BIOL 275* / 275L*
- CHEM 161* / 161L*
- CHEM 162* / 162L*
- CHEM 272* / 272L*
- MBBE 304*
- MBBE 401
- MBBE 402 / 402L
- ANSC 446, BIOL 375, or PEPS 371
- PHYS 100* / 100L* or 151* / 151L* and 152* / 152L*
- MBBE/PEPS/TPSS 499

Insect and Pathogen Biotechnology Required Courses (11 credits)
- PEPS 363
- PEPS 405
- PEPS 421

Insect and Pathogen Biotechnology Elective Courses (13-14 credits)
13 credits of the following:
- MBBE/PEPS/TPSS 499
- Approved electives (see advisor)

Notes
CTAHR Office of Academic and Student Affairs: Gilmore 210; (808) 956-8183/(808) 956-6733; acadaff@ctahr.hawaii.edu; www.ctahr.hawaii.edu
MBBE Program: Gilmore 211; (808) 956-6997
MBBE Undergraduate Advisor: Harry Ako, PhD; AgSci 218; (808) 956-2012; hako@hawaii.edu

Rev. HA 7/13