Bachelor of Science (BS) in Molecular Biosciences and Biotechnology
Specialization: Plant Biotechnology
Admissions: Open    Process: Declaration
Min. Total Credits: 120 (110 in core & major + 10 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 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

College Requirements

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

**Credit Minimums**
- 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 Molecular Biosciences and Biotechnology

**Specialization:** Plant Biotechnology  
**Admission:** Open  
**Application:** NA  
**Min. major credits:** 71 (80 with related requirements)  
**Min. exit GPA:** 2.0 in the major

### Requirements

#### Molecular Biosciences and Biotechnology Related Requirements (7 credits)

- MATH 215<sup>*</sup> or 241<sup>*</sup>
- NREM 220<sup>*</sup>

#### Molecular Biosciences and Biotechnology Core Courses (50 credits)

- BIOL 171<sup>*</sup> / 171L<sup>†</sup>
- BIOL 172<sup>*</sup> / 172L<sup>†</sup>
- BIOL 275<sup>*</sup> / 275L<sup>†</sup>
- CHEM 161<sup>*</sup> / 161L<sup>†</sup>
- CHEM 162<sup>*</sup> / 162L<sup>†</sup>
- CHEM 272<sup>*</sup> / 272L<sup>†</sup>
- MBBE 304<sup>‡</sup>
- MBBE 401
- MBBE 402 / 402L
- ANSC 446, BIOL 375, or PEPS 371
- PHYS 100<sup>*</sup> / 100L<sup>†</sup> or PHYS 151<sup>*</sup> / 151L<sup>†</sup> and PHYS 152<sup>*</sup> / 152L<sup>†</sup>
- MBBE/PEPS/TPSS 499

#### Plant Biotechnology Required Courses (10 credits)

- PEPS 405
- TPSS 416
- TPSS 470

#### Plant Biotechnology Elective Courses (13 credits)

13 credits of the following:
- BIOL 265/265L
- OCN 310
- MBBE/PEPS/TPSS 499 credits beyond 3
- Approved Plant Biotech courses (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

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