University of Hawai‘i at Mānoa  
College of Tropical Agriculture and Human Resources Program Sheet 2014-2015  
Bachelor of Science (BS) in Molecular Biosciences and Biotechnology  
Admissions: Open  Process: Declaration  
Min. Total Credits: 120 (108 in core & major + 12 in electives)

### UHM General Education Core Requirements

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*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

Hawaiian/Second Language Requirement is not required for students admitted to the Molecular Biosciences and Biotechnology program.

### 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

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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

Admission: Open
Application: NA
Min. major credits: 73 (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 (57 credits)
- BIOL 171/DH / BIOL 171L
- BIOL 172/DH / BIOL 172L
- BIOL 275/DH / BIOL 275L
- BIOL 407
- CHEM 161/DP / CHEM 161L
- CHEM 162/DP / CHEM 162L
- CHEM 272/DP / CHEM 272L
- MBBE 304
- MBBE 401
- MBBE 402
- MBBE 408
- MBBE 483
- ANSC 446, BIOL 375, or PEPS 371
- PHYS 100/DP / PHYS 100L or PHYS 151/DP / PHYS 151L and PHYS 152/DP / PHYS 152L
- MBBE/PEPS/TPSS 499

General Biotechnology Elective Courses (18 credits)

18 credits of the following:
- BE 150
- BE 373
- BE 410
- BE 420
- BE 431
- BE 440
- BOT 102/102L
- BOT 470/470L
- CHEM 273/273L
- MBBE 402L
- MBBE 412
- MBBE 412L
- MBBE 485/485L
- MICR 351/351L
- MICR 351/351L
- MICR 351/351L
- MICR 461
- MICR 475
- PEPS 363
- PEPS 405
- PEPS 421
- PEPS 422
- ZOOL 320/320L
- TPSS 440

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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