



University of Hawai'i at Mānoa
College of Tropical Agriculture and Human Resources Program Sheet 2017-2018
Bachelor of Science (BS) in Molecular Biosciences and Biotechnology

Admissions: Open Process: Declaration
Min. Total Credits: 120 (106 in core & major + 14 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FS MATH 215 or 241
<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 BIOL 171
<input type="checkbox"/> DP CHEM 161
<input type="checkbox"/> DY CHEM 161L
<input type="checkbox"/> DS NREM 220 or ECON 130
<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
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 (<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
• 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

Admission: Open

Application: NA

Min. major credits: 73 (80 with related requirements)

Min. exit GPA: 2.0 in the major

Requirements

Molecular Biosciences and Biotechnology Related Requirements (7 credits)

- MATH 215*^{FS} or 241*^{FS}
- NREM 220*^{DS} or ECON 130*^{DS}

Molecular Biosciences and Biotechnology Core Courses (47 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*
- MBBE 401
- MBBE 402
- MBBE 483
- PHYS 100*^{DP} / 100L*^{DY} or 151*^{DP} / 151L*^{DY} and 152*^{DP} / 152L*^{DY}
- MBBE/PEPS/TPSS 499 (6 credits)

General Biotechnology Elective Courses (24 credits)

- | | | | |
|---------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------|
| <input type="checkbox"/> ANSC 446 | <input type="checkbox"/> ANSC/OCN 450 | <input type="checkbox"/> BE 150 | <input type="checkbox"/> BE 260 |
| <input type="checkbox"/> BE 373 | <input type="checkbox"/> BE 410 | <input type="checkbox"/> BE 411/FSHN 411 | <input type="checkbox"/> BE 420 |
| <input type="checkbox"/> BE 431 | <input type="checkbox"/> BE 440 | <input type="checkbox"/> BIOL 375/375L | <input type="checkbox"/> BIOL 407 |
| <input type="checkbox"/> BIOL/MCB 472 | <input type="checkbox"/> BOT 101/101L | <input type="checkbox"/> BOT 420 | <input type="checkbox"/> CHEM 273/273L |
| <input type="checkbox"/> MBBE 402L | <input type="checkbox"/> MBBE 408 | <input type="checkbox"/> MBBE 412 | <input type="checkbox"/> MICR 351/351L |
| <input type="checkbox"/> MICR 461 | <input type="checkbox"/> MICR 470 | <input type="checkbox"/> MICR 475/475L | <input type="checkbox"/> MICR 485/485L |
| <input type="checkbox"/> MICR 490 | <input type="checkbox"/> PHRM 201 | <input type="checkbox"/> PHRM 203 | <input type="checkbox"/> PEPS 363 |
| <input type="checkbox"/> PEPS 371 | <input type="checkbox"/> PEPS 405 | <input type="checkbox"/> PEPS 421 | <input type="checkbox"/> PEPS 422 |
| <input type="checkbox"/> TPSS 440 | <input type="checkbox"/> TPSS 453 | <input type="checkbox"/> TPSS 470/470L | <input type="checkbox"/> ZOOL 320/320L |

Notes

CTAHR Academic Advising Office:

Gilmore 1st floor; ctahradv@hawaii.edu

Appointments are required to see an advisor; please visit ctahradv.youcanbook.me/ to schedule an appointment.

CTAHR Office of Academic and Student Affairs:

Gilmore 210, (808) 956-8183/(808) 956-6733; www.ctahr.hawaii.edu/ugadvising