



University of Hawai'i at Mānoa
Colleges of Arts & Sciences Program Sheet 2017-2018
Bachelor of Science (BS) in Molecular Cell Biology
Admissions: Open Process: Declaration
Min. Total Credits: 120 (107 in core & major + 13 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, 241, or 251A
<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, 172
<input type="checkbox"/> DP CHEM 161
<input type="checkbox"/> DY BIOL 171L, 172L, CHEM 161L
<input type="checkbox"/> DS MCB 314
<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
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
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

Degree Requirements
Bachelor of Science Requirements
<input type="checkbox"/> Calculus I
<input type="checkbox"/> Calculus II
<input type="checkbox"/> Chemistry I with lab
<input type="checkbox"/> Chemistry II with lab
<input type="checkbox"/> Physics I with lab
<input type="checkbox"/> Physics II with lab
<i>Refer to major requirements for the specific courses that satisfy these requirements.</i>
College Requirements
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship

*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 Cell Biology

Admission: Open

Application: NA

Min. major credits: BS = 46 (77-79 with related requirements)

Min. C grade (not C-) in all prerequisite courses

Requirements

Molecular Cell Biology Core Requirements (36 credits)

BIOL 171^{*DB} / 171L^{*DY}

BIOL 172^{*DB} / 172L^{*DY}

BIOL 275 / 275L (Fall and Summer)

BIOL 375 / 375L (Spring only)

BIOL 407 (Fall only)

BIOL 408 / 408L (Spring only)

Biochemistry (MBBE 402 or BIOC 441)

MCB 314^{DS} (Spring only)

MCB 461 (Fall only)

MCB 472

Molecular Cell Biology Related Requirements (10 credits from Group 1 and 2, minimum of 1 credit from 2)

Group 1 Courses

10 credits from: ICS 475, MATH 304, 305, MICR 351, 431, 470, 475, 490, PHYL 301, ZOOL 420, 442, MICR/BOT/ZOOL 499

_____ _____ _____ _____

Group 2 Courses

MICR 351L, 461L, 475L, 490L, PHYL 301L, ZOOL 420L

_____ _____ _____ _____

Related Major Courses (31-33 credits)

MATH 215^{*FS}, 241^{*FS}, or 251A^{*FS}

MATH 216, 242, or 252A

CHEM 161^{*DP} / 161L^{*DY}

CHEM 162 / 162L

CHEM 272 / 272L

CHEM 273

PHYS 151/151L or 170/ 170L

PHYS 152/152L or 272/ 272L

Notes

Department of Biology Advising: Edmondson 216; (808) 956-8303; bioadv@hawaii.edu

To schedule an advising appointment, visit manoa.hawaii.edu/biology/advising.

Microbiology Department: Snyder 207; (808) 956-8553; www.hawaii.edu/microbiology/

Microbiology Undergraduate Advisor: Jain Pak; (808) 956-8303; jainpak@hawaii.edu