# 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
- FW
- FS
- FG (A / B / C)
- FG (A / B / C)

### Diversification
- 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
- 101
- 102
- 201
- 202

### Credit Minimums
- 120 total applicable
- 30 in residence at UHM
- 60 non-introductory

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

## Degree Requirements

### Bachelor of Arts Requirement (Can also fulfill FS)
- MATH 100, 112, 140, 161, 203, 215, 241, 251A; PHIL 110, 111; BUS 250; ICS 141, 241; NREM 203; or SOCS 150

### Bachelor of Science Requirements
- MATH 215* or 241* or 251A*
- MATH 216 or 242 or 252A
- DB course
- CHEM 161* or 161L*
- CHEM 162* or 162L*
- PHYS 151* or 170* or 151L* or 170L*
- PHYS 152* or 272* or 152L* or 272L*

### College Requirements

#### A & S Options – Complete at least one option
See degree requirements above.

#### 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 = 44 (74 with related requirements)

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

## Requirements

### Molecular Cell Biology Core Requirements (34 credits)

- **BIOL 171**<sup>DB</sup> / **171L**<sup>DY</sup>
- **BIOL 172**<sup>DB</sup> / **172L**<sup>DY</sup>
- **BIOL 275**<sup>DB</sup> / **275L**<sup>DY</sup>
- **BIOL 375**<sup>DB</sup> / **375L**<sup>DY</sup>
- **BIOL 407**<sup>DB</sup>
- **BIOL 408**<sup>DB</sup>
- Biochemistry (MBBE 402**<sup>DB</sup> or BIOC 441**<sup>DB</sup>)
- **MCB 314**<sup>DS</sup>
- **MCB 461**<sup>DB</sup>
- **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, MBBE 405, PHYL 301, ZOOL 420, 442, MICR/BOT/ZOOL 499
  - __________
  - __________
  - __________
  - __________

#### Group 2 Courses

- MICR 351L, 431L, 461L, 475L, 490L, PHYL 301L, ZOOL 420L
  - __________
  - __________
  - __________
  - __________

### Related Major Courses

- **MATH 215**
- **MATH 216**
- **CHEM 161/161L**
- **CHEM 162/162L**
- **CHEM 272/272L**
- **CHEM 273**
- **PHYS 151/151L or 170/170L**
- **PHYS 152/152L or 272/272L**

### Notes

Colleges of Arts and Sciences Student Academic Services: QLCSS 113; (808) 956-8755
Microbiology Department: Snyder 207; (808) 956-8553; uhmicro@hawaii.edu; www.hawaii.edu/microbiology
Microbiology Undergraduate Chair: Stuart Donachie, PhD; Snyder 21; (808) 956-6452; donachie@hawaii.edu
http://www.advising.hawaii.edu/artscl/pages/resources/lib_art_degrees/majorskills/majorskills_micr.asp#MICR_SCHED

Rev. SD 1/12