Bachelor of Science (BS) in Molecular Cell Biology

Admissions: Open  Process: Declaration
Min. Total Credits: 124 (BS = 108 in core & major + 16 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
- 101
- 102
- 201
- 202

#### Credit Minimums
- 124 total applicable
- 30 in residence at UHM

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

### 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*FS or 241*FS
- MATH 216 or 242
- DB course
- CHEM 161*DP / 161L*DY
- CHEM 162*DP / 162L*DY
- PHYS 151*DP or 170*DP / 151L*DY or 170L*DY
- PHYS 152*DP or 272*DP / 152L*DY or 272L*DY

### College Requirements

- A & S Options – Complete at least one option *(BA Courses cannot double count with Gen. Ed. Core)*
  - Bachelor of Arts Breadth (3 credit each)
    - AH
    - LLL
    - NS
    - SS

  - Bachelor of Arts Depth – see list of A & S depts.
    - Minor
    - Certificate
    - 2nd A & S Major

- Bachelor of Science
  - See degree requirements above.

### Credit Minimums
- 60 non-introductory

### Credit Maximums
- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship

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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 Cell Biology

**Admission:** Open  
**Application:** NA  
**Min. major credits:** BS = 36 (76 with related requirements)  
Min. C grade (not C-) in all prerequisite courses

**Requirements**

**Molecular Cell Biology Core Requirements (33 credits)**

- BIOL 171*DB / BIOL 171L*DY  
- BIOL 172*DB / BIOL 172L*DY  
- BIOL 275*DB / BIOL 275L*DY  
- BIOL 375*DB / BIOL 375L*DY  
- BIOL 406  
- BIOL 407  
- MICR 461DB  
- MBBE 402DB or BIOC 441DB  
- MCB 314 DS  
- 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

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**Group 2 Courses**

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

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### Related Major Courses

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

### 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: Paul Patek, PhD; Snyder 318; (808) 956-7025; patek@hawaii.edu  

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