### UHM General Education Core Requirements

#### Foundations
- FW  ENG 100, 100A, 190, ESL 100, or AMST 111
- FS  MATH 215, 241, or 251A
- FG (A / B / C)
- FG (A / B / C)

#### Diversification
- DA / DH / DL
- DB  BIOL 171, 172
- DP  CHEM 161
- DY  CHEM 161L, BIOL 171L, BIOL 172L
- 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 Science Requirements
- Calculus I
- Calculus II
- Chemistry I with lab
- Chemistry II with lab
- Physics I with lab
- Physics II with lab

Refer to major requirements for the specific courses that satisfy these requirements.

#### College Requirements

#### 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 Microbiology

**Admission:** Open

**Application:** NA

**Min. major credits:** 29 (76-78 with related requirements)

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

### Requirements

#### Microbiology Related Requirements (47-49 credits)

- BIOL 171* / 171L* (Spring and Summer only)
- BIOL 172* / 172L*
- BIOL 275 / 275L
- CHEM 161* / 161L*
- CHEM 162 / 162L
- CHEM 272 / 272L
- CHEM 273
- PHYS 151* / 151L* or 170* / 170L*
- PHYS 152* / 152L* or 272* / 272L*
- MBBE 402 or BIOC 441
- MATH 215* and 216 or 241* and 242 or 251A* and 252A

#### Microbiology Core Courses (5 credits)

- MICR 351 / 351L (Spring only)

#### Additional Courses (24 credits; see department for approved choices; see catalog for prerequisites)

**Additional Microbiology Courses (9 credits)**

- MICR 431
- MICR 461
- MICR 475

3 credits from Group 1: MICR 361, 401, 463, 470, 485, or 490

6 credits from Group 2: MICR 401L, 431L, 461L, 463L, 475L, 485L, 490L

6 credits of approved Group 3 major electives:

### Notes

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

Department of Biology Advising; Cheri Kau; (808) 956-8303; bioadvis@hawaii.edu; Edmondson 216

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