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
- 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
- MATH 215\(^{a+5}\) or 241\(^{a+5}\) or 251A\(^{a+5}\)
- MATH 216 or 242 or 252A
- DB course
- CHEM 161\(^{a+Y}\) / CHEM 161L\(^{a+Y}\)
- CHEM 162\(^{a+DP}\) / CHEM 162L\(^{a+DY}\)
- PHYS 151\(^{a+Y}\) / 151L\(^{a+Y}\) or PHYS 170\(^{a+Y}\) / 170L\(^{a+Y}\)
- PHYS 152\(^{a+DP}\) / 152L\(^{a+DY}\) or PHYS 272\(^{a+DP}\) / 272L\(^{a+DY}\)

College Requirements
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 Microbiology

**Admission:** Open  
**Application:** NA  
**Min. major credits:** 40-41 (76-77 with related requirements)  
**Min. C grade (not C-) in all prerequisite courses**

#### Requirements

**Microbiology Related Requirements (36-37 credits)**
- BIOL 171\(^\text{DP}\) / 171L\(^\text{DY}\) (offered Fall and Summer)  
- BIOL 172\(^\text{DP}\) / 172L\(^\text{DY}\) (offered Spring and Summer)  
- BIOL 275\(^\text{DP}\) / 275L\(^\text{DY}\) (offered Spring and Summer)  
- CHEM 161\(^\text{DP}\) / 161L\(^\text{DY}\)  
- CHEM 162\(^\text{DP}\) / 162L\(^\text{DY}\)  
- CHEM 272\(^\text{DP}\) / 272L\(^\text{DY}\)  
- PHYS 151\(^\text{DP}\) / 151L\(^\text{DY}\) or 170\(^\text{DP}\) / 170L\(^\text{DY}\)  
- PHYS 152\(^\text{DP}\) / 152L\(^\text{DY}\) or 272\(^\text{DP}\) / 272L\(^\text{DY}\)

**Microbiology Core Courses (5 credits)**
- MICR 351 / 351L

**Additional Courses (35-36 credits; see department for approved choices; see catalog for prerequisites)**

**Additional Related Requirements**
- MBBE 402 or BIOC 441  
- MATH 215 and 216 or 241 and 242/242L or 251A and 252A

**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**

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 210; donachie@hawaii.edu  
http://www.advising.hawaii.edu/artsci/pages/resources/lib_art_degrees/majorskills/majorskills_micr.asp#MICR_SCHED