



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2012-2013**  
**Bachelor of Science (BS) in Microbiology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (105 in core & major + 15 in electives)**

**UHM General Education Core Requirements**

<b>Foundations</b>
<input type="checkbox"/> FW
<input type="checkbox"/> FS
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
<b>Diversification</b>
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB
<input type="checkbox"/> DP
<input type="checkbox"/> DY
<input type="checkbox"/> DS
<input type="checkbox"/> DS
<i>* See degree, college and major requirements for courses that can also fulfill these.</i>

**UHM Graduation Requirements**

<b>Focus</b>
<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+)
<b>Hawaiian / Second Language</b>
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
<b>Credit Minimums</b>
• 120 total applicable
• 30 in residence at UHM
• 60 non-introductory
<b>Grade Point Average</b>
• 2.0 cumulative or higher (Note: Other GPAs may be required.)
• Good academic standing

**Degree Requirements**

<b>Bachelor of Science Requirements</b>
<input type="checkbox"/> MATH 215*FS or 241*FS
<input type="checkbox"/> MATH 216 or 242
<input type="checkbox"/> DB course
<input type="checkbox"/> CHEM 161*DP / <input type="checkbox"/> 161L*DY
<input type="checkbox"/> CHEM 162*DP / <input type="checkbox"/> 162L*DY
<input type="checkbox"/> PHYS 151*DP or 170*DP / <input type="checkbox"/> 151L*DY or 170L*DY
<input type="checkbox"/> PHYS 152*DP or 272*DP / <input type="checkbox"/> 152L*DY or 272L*DY
<b>College Requirements</b>
See degree requirements above.
<b>Credit Maximums</b>
• 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: 36 (72 with related requirements)

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

### Requirements

#### Microbiology Related Requirements (36-37 credits)

BIOL 171\*DB /  171L\*DY (offered Fall and Summer)

BIOL 172\*DB /  172L\*DY (offered Spring and Summer)

BIOL 275\*DB /  275L\*DY (offered Spring and Summer)

CHEM 161\*DP /  161L\*DY

CHEM 162\*DP /  162L\*DY

CHEM 272\*DP /  272L\*DY

CHEM 273\*DP

PHYS 151\*DP / 151L\*DY or  170\*DP / 170L\*DY

PHYS 152\*DP / 152L\*DY or  272\*DP / 272L\*DY

#### Microbiology Core Courses (5 credits)

MICR 351 /  351L

#### BS (31 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

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**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](http://www.advising.hawaii.edu/artsci/pages/resources/lib_art_degrees/majorskills/majorskills_micr.asp#MICR_SCHED)