



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2013-2014**  
**Bachelor of Science (BS) in Biology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (114 in core & major + 6 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 ( <i>Note: Other GPAs may be required.</i> )
• Good academic standing

Degree Requirements
<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 Biology

Admission: Open

Application: NA

Min. major credits: 47 (81 with related requirements)

Minimum C grade (not C-) in all courses

### Requirements

#### Biology Related Requirements (28-29 credits)

MATH 215\*<sup>FS</sup> or 241\*<sup>FS</sup> or 251A\*<sup>FS</sup>

CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup>

CHEM 162 /  162L

CHEM 272 /  272L

CHEM 273 (273L recommended)

PHYS 151 or 170 /  151L or 170L

PHYS 152 or 272 /  152L or 272L

#### Biology Core Courses (21 credits)

BIOL 171\*<sup>DB</sup> /  171L\*<sup>DY</sup>

BIOL 172\*<sup>DB</sup> /  172L\*<sup>DY</sup>

BIOL 265 /  265L (offered Fall only)

BIOL 275 /  275L (offered Spring and Summer)

BIOL 375 /  375L (offered Fall only)

#### Additional Biology Electives

Lab elective (300+)

BOT elective (300+)

MICR elective (300+)

ZOOL elective (300+)

#### Additional Requirements (See department for tracks and approved courses; see catalog for prerequisites)

*Additional Related Requirements (6-7 credits)*

MATH 216 or 242 or 252A

MATH 243 or ECON 321\*<sup>DS</sup> or NREM 310

*Main BS Requirements*

BIOC 441 or BIOL 402 Biochemistry

Morphology/Systematics courses (see approved list)

BIOL 499 Directed Research (min. 1 credit)

Physiology courses (see approved list)

**15 credits** in one of five tracks from approved courses list (may overlap with biology electives, except PHYL):

\_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_

### Notes

Colleges of Arts and Sciences, Student Academic Services: QLCSS 113; (808) 956-8755

Department of Biology: Edmonson Hall, 2<sup>nd</sup> Floor; (808) 956-8303; biology@hawaii.edu

Biology Undergraduate Advisors: Joseph Menor Jr, M.Ed., Stephanie Kraft-Terry, Ph.D.; (808) 956-8303; bioadv@hawaii.edu

[http://www.advising.hawaii.edu/artsci/pages/resources/lib\\_art\\_degrees/majorskills/majorskills\\_biology.asp#BIOL\\_SCHED](http://www.advising.hawaii.edu/artsci/pages/resources/lib_art_degrees/majorskills/majorskills_biology.asp#BIOL_SCHED)