



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2014-2015**  
**Bachelor of Science (BS) in Biology**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (115 in core & major + 5 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>
<b>UHM Graduation Requirements</b>
<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>Bachelor of Science Requirements</b>
<input type="checkbox"/> Calculus I
<input type="checkbox"/> Calculus II
<input type="checkbox"/> Chemistry I with lab
<input type="checkbox"/> Chemistry II with lab
<input type="checkbox"/> Physics I with lab
<input type="checkbox"/> Physics II with lab
<i>Refer to major requirements for the specific courses that satisfy these requirements.</i>
<b>College Requirements</b>
<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: 48 (82-85 with related requirements)

Minimum C grade (not C-) in all courses

### Requirements

#### Biology Related Requirements (34-37 credits)

MATH 215 or 241 or 251A

MATH 216 or 242 or 252A

MATH 243 (or ECON 321\*<sup>DS</sup>; NREM 310; MATH 243, 304, 373, 472; or SOCS 225)

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 (Fall only)

BIOL 275 /  275L (Spring and Summer only)

BIOL 375 /  375L (Fall only)

#### Additional Biology Electives (27 credits)

Physiology courses (BOT 470; MICR 431; PHYL 301, 302; TPSS 470; ZOOL 430, 432, 442)

Biochemistry course (BIOC 441 or BIOL 402)

Morphology/Systematics courses (BOT 410/410L, 430/430L, 461, 480; MICR 351/351L; PEPS 363/363L; ZOOL 320/320L; 416/416L, 465/465L, 475/475L)

**16 credits** from MICR elective (300+), Lab elective (300+), or additional courses from approved list:

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

### Notes

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

Department of Biology: Edmondson 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; bioadvise@hawaii.edu