University of Hawai‘i at Mānoa  
College of Arts & Sciences Program Sheet 2010-2011  
Bachelor of Arts/Science (BA/BS) in Biology  
Admissions: Open  
Process: Declaration  
Min. Total Credits: 124 (BA = 110 in core & major + 14 in electives; BS = 113 in core & major + 11 in electives)

UHM General Education Core Requirements

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* See degree, college and major requirements for courses that can also fulfill these.

UHM Graduation Requirements

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<th>Hawaiian/Second Language</th>
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<th>Credit Minimums</th>
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<td>124 total applicable</td>
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<td>30 in residence at UHM</td>
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<th>Grade Point Average</th>
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<td>2.0 cumulative or higher</td>
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<td>Good academic standing</td>
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Degree Requirements

Bachelor of Arts Requirement (Can also fulfill FS)
- MATH 100, 100A, 112, 140, 203, 215, 251A; PHIL 110, 110A, 111; BUS 250; ICS 141; or NREM 203

Bachelor of Science Requirements
- MATH 215*FS or 241*FS
- MATH 216 or 242
- DB course
- CHEM 161*DP / 161*DY
- CHEM 162*DP / 162*DY
- PHYS 151*DP or 170*DP / 151L*DY or 170L*DY
- PHYS 152*DP or 272*DP / 152L*DY or 272L*DY

College Requirements

A & S Options – Complete at least one option
(BA Courses cannot double count with Gen. Ed. Core)
- Bachelor of Arts Breadth (3 credit each)
  - AH
  - LLL
  - NS
  - SS

- Bachelor of Arts Depth – see list of A & S depts.
  - Minor
  - Certificate
  - 2nd A & S Major

- Bachelor of Science
  - See degree requirements above.

Credit Minimums
- 104 from A & S disciplines – see list
- 60 non-introductory

Credit Maximums
- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship

A & S Major Requirements

See back for major requirements. Meet regularly with your major advisor.
## Major Requirements for BA or BS in Biology

**Admission:** Open  
**Application:** NA  
**Min. major credits:** BA = 40 (68 with related requirements); BS = 46 (80 with related requirements)  
**Minimum C grade (not C-) in all courses**

### Requirements

#### Biology Related Requirements (28-29 credits)
- MATH 215*FS or 241*FS or 251A*FS
- CHEM 161*DP / 161L*DP
- CHEM 162*DP / 162L*DY
- CHEM 272*DP / 272L*DY
- CHEM 273*DP (273L*DY recommended)
- PHYS 151*DP or 170*DP / 151L*DY or 170L*DY
- PHYS 152*DP or 272*DP / 152L*DY or 272L*DY

#### Biology Core Courses (20 credits)
- BIOL 171*DB / 171L*DY (offered Fall and Summer)
- BIOL 172*DB / 172L*DY (offered Spring and Summer)
- BIOL 265*DB / 265L*DY (offered Fall only)
- BIOL 275*DB / 275L*DY (offered Spring and Summer)
- BIOL 375 / 375L (offered Fall only)

#### Additional Biology Electives
- PHYL elective
- Lab elective (300+)
- BOT elective (300+)
- MICR elective (300+)
- ZOOL elective (300+)

**BA only (see department for approved choices)**

In addition to biology electives listed above, approved 300+ level electives to reach **20 credits total**:
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**BS only (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 or NREM 310

#### Main BS Requirements
- BIOC 441 or BIOL 402
- Morphology/Systematics courses
- Directed Research (min. 1 credit)

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

College of Arts & Sciences, Student Academic Services: QLCSS 113; (808) 956-8755  
Biology Department: Dean 2; (808) 956-8303; biology@hawaii.edu  
Biology Undergraduate Advisor: Joseph Menor; Dean 2; (808) 956-8303; bioadvis@hawaii.edu