



**University of Hawai'i at Mānoa**  
**Colleges of Arts & Sciences Program Sheet 2013-2014**  
**Bachelor of Art (BA) in Biochemistry**  
**Admissions: Open Process: Declaration**  
**Min. Total Credits: 120 (108 in core & major + 12 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
<input type="checkbox"/> *MATH 100, 112, 140, 161, 203, 215, 241, 251A; PHIL 110, 111; BUS 250; ICS 141, 241; NREM 203; or SOCS 150 ( <i>Students must still fulfill the General Education FS requirement.</i> )
College Requirements
<b>*A &amp; S Options – Complete at least one option</b> <i>(Cannot double count with Gen. Ed. Core)</i>
<input type="checkbox"/> *Bachelor of Arts Breadth (3 credit each)
<input type="checkbox"/> AH
<input type="checkbox"/> LLL
<input type="checkbox"/> NS
<input type="checkbox"/> SS
<input type="checkbox"/> *Bachelor of Arts Depth – see list of A & S depts.
Minor
Certificate
2 <sup>nd</sup> A & S Major
Credit Maximums
• 8 KRS activity
• 9 Directed Reading / Research
• 12 Practicum / Internship
<i>*This requirement does not apply to students entering UHM in Fall 2013 and continuing students who choose the new requirement. Contact your advisor if you have any questions.</i>

*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 BA in Biochemistry

Admission: Open

Application: NA

Min. major credits: 63 (71 with related requirements)

Min. C grade (not C-) in courses

### Requirements

#### Biochemistry Related Requirements (8 credits)

CHEM 161\*<sup>DP</sup> /  161L\*<sup>DY</sup> (C, not C-, or higher to advance)

CHEM 162\*<sup>DP</sup> /  162L\*<sup>DY</sup> (C, not C-, or higher to advance)

#### Biochemistry Core Courses (53 credits)

CHEM 272\*<sup>DP</sup> /  272L\*<sup>DY</sup> (C, not C-, or higher to advance)

CHEM 273\*<sup>DP</sup> /  273L\*<sup>DY</sup>

CHEM 274 /  274L (offered Spring only)

CHEM 351 or 352 or 361

CHEM 372

BIOL/MBBE/PEPS 402

BIOL 171\*<sup>DP</sup> /  171L\*<sup>DY</sup> (C, not C-, or higher to advance)

BIOL 172\*<sup>DP</sup> /  172L\*<sup>DY</sup> (C, not C-, or higher to advance)

BIOL 275\*<sup>DP</sup> /  275L\*<sup>DY</sup> (C, not C-, or higher to advance)

MATH 215 or 241 or 251A

MATH 242 or 252A

PHYS 170\*<sup>DP</sup> /  170L\*<sup>DY</sup> or 170A

PHYS 272\*<sup>DP</sup> /  272L\*<sup>DY</sup> or 272A

#### Biochemistry Electives

**10 credits** including one laboratory course from the approved list of courses:

\_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_  \_\_\_\_\_ L

#### Approved Courses:

CHEM 351, 352, 352L, 399, 425, 427, 445, 445L, 462

BIOL 375, 375L, 401, 407, 408, 483

MBBE 412, 480

MICR 351, 351L, 431, 431L, 461, 461L, 463, 463L, 475, 475L, 490, 490L

ZOOL 430, 430L, 442

*Recommended language: German, French, Russian, or Japanese*

*Note: Please consult with your Chemistry advisor regarding minimum grade and GPA requirements and projected changes to course offerings.*

#### Notes

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

Chemistry Department: Bilger 239; (808) 956-7480; office@gold.chem.hawaii.edu; manoa.hawaii.edu/chem

Biochemistry Major Advisor: Joseph T. Jarrett, PhD; (808) 956-6721; jtj@hawaii.edu

[http://www.advising.hawaii.edu/artsci/pages/resources/lib\\_art\\_degrees/majorskills/majorskills\\_chem.asp#CHEM\\_SCHED](http://www.advising.hawaii.edu/artsci/pages/resources/lib_art_degrees/majorskills/majorskills_chem.asp#CHEM_SCHED)