



University of Hawai'i at Mānoa
Colleges of Arts & Sciences Program Sheet 2016-2017
Bachelor of Science (BS) in Biochemistry
Admissions: Open Process: Declaration
Min. Total Credits: 122 (110 in core & major + 12 in electives)

UHM General Education Core Requirements
Foundations
<input type="checkbox"/> FW ENG 100, 100A, 190, ESL 100, or AMST 111
<input type="checkbox"/> FS MATH 2154, 241, 251A
<input type="checkbox"/> FG (A / B / C)
<input type="checkbox"/> FG (A / B / C)
Diversification
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DA / DH / DL
<input type="checkbox"/> DB BIOL 171
<input type="checkbox"/> DP CHEM 161
<input type="checkbox"/> DY CHEM 161L
<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
Focus
<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+)
Hawaiian / Second Language
<input type="checkbox"/> 101
<input type="checkbox"/> 102
<input type="checkbox"/> 201
<input type="checkbox"/> 202
Credit Minimums
• 120 total applicable
• 30 in residence at UHM
• 35 major-required lower division/25 upper division (300+ level) credits
Grade Point Average
• 2.0 cumulative or higher (<i>Note: Other GPAs may be required.</i>)
• Good academic standing

Degree Requirements
Bachelor of Science Requirements
<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>
College Requirements
Credit Maximums
• 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 Biochemistry

Admission: Open

Application: NA

Min. major credits: 55 (80 with related requirements)

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

Requirements

Biochemistry Related Requirements (25 credits)

CHEM 161*^{DP} / 161L*^{DY} (C, not C-, or higher to advance)

CHEM 162*^{DP} / 162L*^{DY} (C, not C-, or higher to advance)

MATH 241*^{FS} or 251A*^{FS} or 215

MATH 242 or 252A

PHYS 170*^{DP} / 170L*^{DY}

PHYS 272*^{DP} / 272L*^{DY} (C, not C-, or higher to advance)

Biochemistry Core Courses (55 credits in CHEM courses numbers 200 and above)

CHEM 272*^{DP} / 272L*^{DY} (C, not C-, or higher to advance)

CHEM 273*^{DP} / 273L*^{DY}

CHEM 274 / 274L (offered Spring only)

CHEM 361 (or 351 or 352)

CHEM 372

CHEM 462

CHEM 463L

BIOL 171*^{DP} / 171L*^{DY} (C, not C-, or higher to advance)

BIOL 172*^{DP} / 172L*^{DY} (C, not C-, or higher to advance)

BIOL 275*^{DP} / 275L*^{DY} (C, not C-, or higher to advance)

BIOL/MBBE/PEPS 402

Biochemistry Electives

14 credits including 2 laboratory courses from the approved list of courses. At least one course must be from CHEM courses:

CHEM _____ _____ _____ / _____ L
 _____ / _____ L

Approved Courses:

CHEM 352L, 399/399L, 425/425L, 427, 445/445L, 462; BIOL 375/375L, 401, 407, 408, 483;
MBBE 412; MICR 351/351L, 431/431L, 461/461L, 463/463L, 475/475L, 490/490L; PHYL 301/301L,
302/302L; ZOOL 430/430L, 442

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

Notes

Chemistry Department: Bilger 239; (808) 956-7480; chemdept@hawaii.edu; manoa.hawaii.edu/chem
Biochemistry Major Advisor: Joseph T. Jarrett, PhD; (808) 956-6721; jtj@hawaii.edu
Registration Inquiries: chemreg@hawaii.edu