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**
- FW ENG 100, 100A, 190, ESL 100, or AMST 111
- FS MATH 2154, 241, 251A
- FG (A / B / C)
- FG (A / B / C)

**Diversification**
- DA / DH / DL
- DA / DH / DL
- DB BIOL 171
- DP CHEM 161
- DY CHEM 161L
- DS
- DS

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

**UHM Graduation Requirements**

**Focus**
- H
- E (300+)
- O (300+)

- W
- W
- W
- W (300+)
- W (300+)

**Hawaiian / Second Language**
- 101
- 102
- 201
- 202

**Credit Minimums**
- 120 total applicable
- 30 in residence at UHM
- 35 non-introductory/25 upper division (300+ level) credits

**Grade Point Average**
- 2.0 cumulative or higher (Note: Other GPAs may be required.)
- Good academic standing

**Degree Requirements**

**Bachelor of Science Requirements**
- Calculus I
- Calculus II
- Chemistry I with lab
- Chemistry II with lab
- Physics I with lab
- Physics II with lab

*Refer to major requirements for the specific courses that satisfy these requirements.*

**College Requirements**

**Credit Maximums**
- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship
### 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* / 161L* (C, not C-, or higher to advance)  
- CHEM 162* / 162L* (C, not C-, or higher to advance)  
- MATH 241* or 251A* (C, not C-, or higher to advance)  
- MATH 242 or 252A  
- PHYS 170* / 170L* (C, not C-, or higher to advance)  
- PHYS 272* / 272L* (C, not C-, or higher to advance)

**Biochemistry Core Courses (55 credits in CHEM courses numbers 200 and above)**
- CHEM 272* / 272L* (C, not C-, or higher to advance)  
- CHEM 273* / 273L*  
- CHEM 274 / 274L (Spring only)  
- CHEM 361 (Fall only)  
- CHEM 372 (Fall only)  
- CHEM 462 (Spring only)  
- CHEM 463L (Fall only)  
- BIOL 171* / 171L* (C, not C-, or higher to advance)  
- BIOL 172* / 172L* (C, not C-, or higher to advance)  
- BIOL 275* / 275L* (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:**
- 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

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