



B.S. in Biochemistry Environmental Science Emphasis

For Office Use Only
BIOCHEMBS-ENVSCI.2020
mrs 1609
60 credits
Effective Date: 01/2020

***For specific course information – see Course Listing in Catalog**

Science Core Requirement		15 Credits
BIOL 112/L	4	Biology I – Cell and Molecular Biology/Lab
CHEM 105/L	4	General Chemistry I/Lab
CHEM 106/L	4	General Chemistry II/Lab
MATH 121 or	3	Principles of Statistics
PSYC 205 or	3	Applied Social Statistics
BIOL 340 or	3	Biostatistics

Major Core Requirements		14 Credits
CHEM 201	1	Chemical and Laboratory Safety
CHEM 326/L	4	Analytical Biochemistry/Lab
CHEM 351	3	Organic Chemistry I
CHEM 351/L	1	Organic Chemistry I Lab
CHEM 481	3	Biochemistry I
CHEM 483L	1	Biochemistry Methods Lab I – Proteins
CHEM 491	1	Undergraduate Research

Environmental Science Emphasis Requirements		27 Credits
CHEM 352 or	3	Organic Chemistry II
CHEM 395	3	Organic Spectroscopy
CHEM 370	3	Inorganic Chemistry
BIOL 113	3	Biology II – Evolution, Ecology, and Organismal Biology
BIOL 348/L	4	Natural Resource Management Lab
GEOL 105	3	Geology of the Pacific Basin
GEOL 390R	3	Special Topics in Geology – Geochemistry
PHYS 105/L or	4	College Physics I/Lab
PHYS 121/L	4	Introduction to Newtonian Mechanics/Lab
PHYS 106/L or	4	College Physics II/Lab
PHYS 220/L or	4	Introduction to Electricity and Magnetism/Lab
PHYS 221/L	4	Introduction to Waves, Optics, and Modern Physics/Lab

Electives 4 credits

Choose 4 credits from the following 200 level or above of CHEM, BIOL, OCEN or GEOL courses including research (496R)

CHEM	1-3	352/L, 390R, 395, 450, 468, 482, 484L, 485/L, 496R (1 credit/semester, up to 3 credits total)
BIOL or	1-3	201/L, 204/L, 212/L, 220/L, 248, 260/L, 261/L, 300/L, 302/L, 303/L, 350/L, 373, 374, 376, 390R/L,
BIOL or	1-3	412/L, 441, 442, 460, 485L
GEOL 390R	1-3	Special Topics in Geology
OCEN 201	3	Oceanography and Marine Science

Total Credits Mapped for Graduation:

All students majoring in the Biochemistry program, regardless of emphasis, work towards a B.S. in Biochemistry. If a student chooses to complete the requirements for the Environmental Science or Neuroscience emphasis, they will be doing so as part of, not in addition to, the Biochemistry major requirements. The emphasis are not separate majors. They have been created to give students the opportunity and flexibility to explore and expand their education in areas which are of interest to them and/or helpful for their future career or education.

Grade Policy

All students majoring in Biochemistry are expected to achieve a grade of C- or higher in their major courses. However, we will allow D grade as passing in all courses except in specified prerequisites (BIOL 112/L, CHEM 105/L, CHEM 106/L, CHEM 351/L, CHEM 481, PHYS 105/L, and PHYS 121/L) and as long as the number of credits from D grades does not exceed the allowed maximum (12 credits), as outlined by the BYU-Hawaii policy for graduation requirements.

The terms of this MRS will be honored by the Faculty and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.

*Last Revision 9/9/19
Accessibility check 11/25/19*