



B.S. in Biology

For Office Use Only
BIOLBS.2020
mrs 1553-1556
56 credits
Effective Date: 01/2020

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

General Science Core

BIOL 112/L	4
BIOL 113	3
CHEM 105/L	4
CHEM 106/L	4
BIOL 490r	1
BIOL 340 or	3
MATH 121	3

19 Credits

Biology I – Cell and Molecular Biology/Lab
Biology II – Evolution, Ecology, and Organismal Biology
General Chemistry I/Lab
General Chemistry II/Lab
Current Topics in Biology
Biostatistics or
Principle of Statistics

Biology Core

19-20 Credits

Cell and Molecular Biology – Take 2 lecture and 2 lab courses

BIOL 220	3	Microbiology
BIOL 220L	1	Microbiology Lab
BIOL 376	3	Genetics
BIOL 441	3	Molecular Biology
BIOL 442	3	Cellular Biology
BIOL 484L or	1	Biomolecular Methods Lab II – Nucleic Acids or
CHEM 484L	1	Biochemistry Methods Lab II – Nucleic Acids
BIOL 485L or	1	Biomolecular Methods Lab III – Mammalian Cells
CHEM 485L	1	Biochemistry Methods Lab III – Mammalian Cells

Organism Biology – Take 2 courses

BIOL 201/L	4	General Botany/ Lab
BIOL 212/L	4	Marine Biology/ Lab
BIOL 260/L or	4	Human Anatomy/Lab
BIOL 260/LC	4	Human Anatomy/ Lab-Cadaver Based
BIOL 261/L	4	Human Physiology/ Lab
BIOL 302/L	4	Invertebrate Zoology/ Lab
BIOL 303/L	4	Vertebrate Zoology/ Lab

Ecology, Evolution, and Population Biology – Take 1 course

BIOL 204	2	Pacific Natural History
BIOL 204L	2	Pacific Natural History Lab
BIOL 248	3	Conservation Biology
BIOL 300/L	4	Animal Behavior/Lab
BIOL 348/L	4	Natural Resource Management/Lab
BIOL 350	3	Ecology
BIOL 350L	1	Ecology Lab
BIOL 374	3	Evolution and Human Prehistory

Electives

18 Credits

BIOL 373	3	Human Embryology
BIOL 390R	3-4	Special Topics in Biology
BIOL 390RL	1	Special Topics in Biology Laboratory
BIOL 460	3	Advanced Human Anatomy
BIOL 465	3	Principles of Physiology
BIOL 475	3	Pathophysiology
BIOL 496LR	1	Student Research
OCEN 201	3	Oceanography and Marine Science
CHEM 351	3	Organic Chemistry I
CHEM 351L	1	Organic Chemistry I Lab

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

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CHEM 352	3	Organic Chemistry II
CHEM 352L	1	Organic Chemistry II Lab
CHEM 481	3	Biochemistry I
CHEM 482	3	Biochemistry II
CHEM 483L	1	Biochemistry Methods Lab I- Proteins
PHYS 121/L or	4	Introduction to Newtonian Mechanics/ Lab or
PHYS 105/L	4	College Physics I/Lab
PHYS 106/L or	4	College Physics II/Lab or
PHYS 220/L or	4	Introduction to Electricity and Magnetism/Lab or
PHYS 221/L	4	Introduction to Waves, Optics, and Modern Physics/Lab

Biology Major Requirements mrs 1553

- All students majoring in Biology need to complete a minimum of 24 credits of 300-400 level courses.
- All students majoring in the Biology program, with or without an emphasis, work towards a B.S. in Biology. Students are not required to complete a specific emphasis in the major. However, those with special interests, who wish to select an emphasis may claim it by completing the emphasis requirements as part of, not in addition to, the Biology major requirements.
- For students who are not in the biomedical track and wish to pursue an advanced degree (MS, PhD, MD, DO, DDS, PA, PT etc.) we highly recommend the following courses: Organic Chemistry, Physics and Genetics in addition to other Biology courses as required by the graduate program of interest.

Grade policy

All students majoring in Biology are expected to achieve a grade of C- or higher in their major courses. However, we will allow D grades as passing, if the number of credits from D grades is at or less than the allowed maximum (12 credits), as outlined by the BYU-Hawaii policy for graduation requirements.

Marine Biology

mrs 1154

BIOL 212/L	4	Marine Biology/Lab
BIOL 302/L	4	Invertebrate Zoology/Lab
BIOL 303/L	4	Vertebrate Zoology/Lab
BIOL 376	3	Genetics
BIOL 412/L	4	Coral Reef Ecology/lab
BIOL 484L	1	Biomolecular Methods Lab II- Nucleic Acids
OCEN 201	3	Oceanography and Marine Science

Marine Biology

mrs 1555

BIOL 220	3	Microbiology
BIOL 220L	1	Microbiology Lab
BIOL 376	3	Genetics
BIOL 441	3	Molecular Biology
BIOL 442	3	Cellular Biology
CHEM 351	3	Organic Chemistry I
CHEM 351L	1	Organic Chemistry I Lab
CHEM 352	3	Organic Chemistry II
CHEM 352L	1	Organic Chemistry II Lab
CHEM 481	3	Biochemistry I
CHEM 483L	1	Biochemistry Methods Lab I- Proteins
BIOL 484L or	1	Biomolecular Methods Lab II – Nucleic Acids or
CHEM 484L	1	Biochemistry Methods Lab II – Nucleic Acids
BIOL 485L or	1	Biomolecular Methods Lab III – Mammalian Cells
CHEM 485L	1	Biochemistry Methods Lab III – Mammalian Cells

Ecology, Evolution and Conservation Biology mrs 1556

BIOL 248	3	Conservation Biology
BIOL 300/L	4	Animal Behavior/Lab
BIOL 348/L	4	Natural Resource Management/Lab
BIOL 350L	1	Ecology Lab
BIOL 374	3	Evolution and Human Prehistory

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