



B.S. BIOLOGY

School of Natural Sciences and Mathematics

Biology is the study of life. Our biology program is designed to give you intellectual freedom to pursue your interests in a vast field of study. As a biology major, you'll learn from cutting-edge and contemporary coursework and rigorous laboratory courses. A degree in biology will prepare you for a career in medicine, government, education, the biotech and pharmaceutical industries, environmental management, research, patent law and much more.

HANDS-ON EXPERIENCES

- Engage with exciting professors who teach dynamically using traditional lectures, simulation and online learning
- Develop foundational experimental techniques that prepare you for today's scientific workplace
- Integrate Hawaiian cultural knowledge and usage of medicinal plants
- Take advantage of one of our numerous internship opportunities in Hawai'i or on the U.S. mainland
- Partner with a faculty member to conduct research, and then travel to a conference to present your findings to the international scientific community
- Get specialized advising for health professions school applications (e.g. MD, PharmD, PT school), connect with one of our partner schools for early admission or work with faculty to prepare a competitive application for your first science job

REAL-WORLD SKILLS

When you graduate with a B.S. in Biology from Chaminade, you'll have a solid understanding of:

- The scientific method used to design and test a hypothesis
- The process of visualizing, evaluating, validating and interpreting scientific data, and communicating science effectively
- Tools for comprehending information from published scientific literature
- The chemical and physical principles that unite all life forms
- Genetic and epigenetic information transmission, and their determinant effects on the adaptive and evolutionary processes that they drive
- Major human diseases and possible therapeutic approaches
- The application of science to service, justice and peace in the solution of societal problems.

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FOUR-YEAR GRADUATION GUARANTEE*

Work with your advisor to develop your four-year major graduation plan, and if you follow that, we guarantee you'll graduate in four years.

SAMPLE FOUR-YEAR GRADUATION PLAN:

YEAR 1

Fall, 17 Credits

BI 100 First Year Science Seminar:
Science, Society and the Biosphere
BI 210L Biotechniques Laboratory:
DNA/RNA Protein
BI 215/L Cellular and Organismal Biology I
CH 203/L General Chemistry I
MA 110 Precalculus
CUH 100 First-Year Experience
EN 101 Introduction to Expository Writing

Spring, 15 Credits

BI 104 Digital Biology BI 216/L Cellular and Organismal Biology II EN 102 Expository Writing CH 204/L General Chemistry II COM 101 Introduction to Communication

YEAR 2

Fall, 19 Credits

MA 210 Calculus I BI 307/L Molecular Biology I CH 323/L Organic Chemistry I Free Elective Free Elective

Spring, 19 Credits

MA 211 Calculus II BI 308/L Molecular Biology II CH 324/L Organic Chemistry II Free Elective Free Elective

YEAR 3

Fall, 17 Credits 1, 20 Credits 2

BI 300 Science Writing I
BI 311 Biostatistics
BI 321/L Advanced Human and
Comparative Anatomy
PHY 251/L University Physics I
Free Elective
Free Elective 2

Spring, 16 Credits

BI 302 Science Writing II BI 312 Epidemiology BI 320/L Developmental Biology PHY 252/L University Physics II Free Elective

YEAR 4

Fall, 17 Credits

BI 410/L Advanced Human Physiology I BI 420 Systems Biology Biology Major Elective Course Free Elective Free Elective 1 BI 495 Research I 2

Spring, 18 Credits ¹, 17 Credits ²

BI 411/L Advanced Human Physiology II Biology Major Elective Course Free Elective Free Elective BI 471/L Ecology ¹ Free Elective ²

¹ Course required for Integrative and Organismal Track

² Course required for Cellular and Molecular Track

^{*}The four-year graduation guarantee depends upon you working with an advisor to create a four-year plan unique to your major. Be sure to meet regularly with the Office of Advising & Career Development to build your own, four-year plan based upon your chosen major.