



Distance Education

B.S. IN MARINE BIOLOGY & SUSTAINABLE AQUACULTURE

Make your passion
your career.

Accredited | 100% Online | 8 Start Dates a Year

B.S. in Marine Biology and Sustainable Aquaculture

Do you love the ocean, are passionate about the marine environment, and want a rewarding career working by the ocean? As a Marine Biology and Sustainable Aquaculture student, you will learn the biological connections between the world's oceans, the promise and future of the aquaculture industry, and how we can all contribute to a sustainable marine environment.

Cost: \$470 per credit
Military Discount: \$423

Job Outcomes, Growth*, & Salary**

Aquaculture Manager

\$ \$48k 📈 +8

Fish Hatchery Technician

\$ \$35k 📈 +6

Zoologist

\$ \$48k 📈 +7.7

Marine Scientist

\$ \$72k 📈 +5

Fisheries Biologist

\$ \$60k 📈 +5

*Projected 10-year growth

**National median salary

Source: O*Net

Program Features

- + **One-on-one academic and professional advising** as our world-class faculty and trained staff strive to make your professional and academic goals a reality.
- + **Unity College** is an accredited institution by New England Commission of Higher Education (NECHE).
- + **Experiential Online.** Experiential programs are delivered 100% online with field work designed with the working professional in mind.
- + **Study when and where you want** and finish your degree while still working full-time.
- + **Make professional connections** with leaders in your field.
- + **Get job placement assistance** through our career services department.
- + **Transfer friendly!** We will accept up to 90 credits.

B.S. in Marine Biology and Sustainable Aquaculture

The B.S. in Marine Biology and Sustainable Aquaculture prepares students for a broad range of careers helping protect, preserve, maintain, and grow marine organisms and environments. This degree provides students with a broad emphasis on both marine biology and aquaculture and encompasses coursework with the rigor to prepare students for further study in graduate school or even starting their own aquaculture enterprise.

Job Outcomes, Growth*, & Salary**



Aquaculture Manager

Median Salary: **\$48k**

Growth: **+8**

Aquaculture Managers direct and coordinate the activities of the employees that work in fish hatchery production for corporations, cooperatives, or other owners. They are also responsible for growing fish and shellfish as cash crops or for release into freshwater or saltwater

Marine Scientist

Median Salary: **\$72k**

Growth: **+5**

Marine Scientist research life in the oceans, other saltwater environments, and other wetlands. They are responsible for observing and documenting data on experiments on marine life. They may also be responsible for rehabilitation efforts.

Fisheries Biologist

Median Salary: **\$60k**

Growth: **+5**

Fisheries Biologist are responsible for studying fish and supervising efforts to conserve their natural habitats. They collect samples from wetlands and document their research and data.

*Projected 10-year growth

**National median salary

Source: O*Net

Graduates of the B.S. in Marine Biology & Sustainable Aquaculture will be able to:

- + **Explain** the underlying biological principles and functioning of marine and aquatic organisms at structural levels ranging from molecular to ecosystem.
- + **Choose and implement** appropriate laboratory and field techniques used in marine organismal observation, research, management, and care, including those in wild, cultured, and farmed settings.
- + **Compare and contrast** the major types and components of aquaculture systems, species, and factors as they relate to both environmental and systematics sustainability.
- + **Create** local, regional, and global solutions to environmental problems in marine biology and aquaculture.
- + **Critically evaluate** information using scientific and quantitative reasoning skills.

Program Core

- BIOL 203** Ecological Principles: Applications to Conservation and Wildlife
- CHEM 101** Chemistry I
- CHEM 102** Chemistry I Laboratory
- MBAQ 105** Introduction to Oceanography
- MBAQ 201** Form and Function of Unique Marine Ecosystems
- MBAQ 203** Global Diversity of Freshwater and Marine Resources Used in Sustainable Harvest
- MBAQ 301** Sustainable Aquaculture Techniques I: Growing Shellfish and Finfish
- MBAQ 303** Sustainable Aquaculture Techniques II: Crustaceans and Pathobiology
- MBAQ 307** Ichthyology and Fish Health
- MBAQ 310** Marine Mammal and Seabird Biology
- MBAQ 315** Diversity of Marine and Aquatic Vegetation
- MBAQ 401** Field Research in Marine Biology and Aquaculture

Environmental Professional Core

- EVPC 101** Professional Skills
- EVPC 201** Environmental Issues: Deforestation, Biodiversity Loss, and Overpopulation OR **EVPC 202** Environmental Issues: Energy, Water Scarcity, and Waste
- EVPC 301** Environmental Justice OR **EVPC 305** Building a Better World: Ethical Decision-Making
- EVPC 401** Transformational Leadership
- EVPC 490** Transdisciplinary Capstone

General Education Core

- BIOL 103** Biology: Foundations of Life
- BIOL 104** Biology: Foundations of Life Laboratory
- BIOL 105** Biological Diversity, Ecology, and Evolution
- BIOL 106** Biological Diversity, Ecology, and Evolution Laboratory
- ENVS 201** The Warming Planet: Understanding Climate Change
- MATH 101** College Algebra for Environmental Professionals OR **MATH 105** Precalculus
- MATH 201** Statistics for Environmental Professionals
- An Arts course
- COMM 101** Writing for Environmental Professionals OR **COMM 201** Multimedia Communication for Environmental Professionals
- COMM 303** Communicating to Stakeholders OR **COMM 403** Environmental Crisis Communication
- A Humanities course
- A Language course
- A Social Science course

General Electives

36 credits of general electives

College Wide Requirements

A minimum of 120 earned credit hours, 30 credits at the 300 level or above, a minimum of 30 credits earned at Unity, and an overall cumulative GPA of 2.0 or above

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Undergraduate Concentrations



Emergency Disaster Management

Learn how to proceed in the face of disasters to protect our environment.



Environmental Justice & Social Change

Protect our environment through policies and social change.



Marine Biology & Sustainable Aquaculture

Explore all aspects of oceanography, from vegetation to mammals.



Renewable Energy

Explore green technologies, such as wind, solar, geothermal and biomass power.



Wildlife Ecology

Understand how to manage different types of wildlife.



Sustainable Business

Develop sustainable business solutions and strategies for a modern world.



Environmental GIS

Develop in-demand Geographic Information Systems (GIS) mapping skills.



Animal Health & Behavior

Explore fundamental aspects of animal training and care.



Sustainable Food & Farming

Learn the systems that create a sustainable food culture.



Hemp Industry & Science

Explore the potential of the hemp industry and its products.



Adventure Ecotourism

Bring adventure to clients while respecting the environment.

***Continued on next page.**

Undergraduate Concentrations



Biomedical Sciences

Learn the fundamentals of biomedical studies and the science behind health care for humans and animals.



Large Animal Studies

Learn about the care and management of large animals, including proper health, nutrition, and husbandry for equine and livestock animals.