



Distance Education

# B.S. IN WILDLAND FIRE SCIENCE AND MANAGEMENT

Make your passion  
your career.

Accredited | 100% Online | 8 Start Dates a Year

## B.S. in Wildland Fire Science and Management

Do you want to be a part of a team that helps manage one of the most influential natural forces on earth? Whether started by an errant spark or intentionally set by a management team, fire requires many different players on the team. With a degree in Wildland Fire Science and Management, you will be the team player responsible for understanding the why and how of fire science to work towards management and prevention in wild ecosystems.

**Cost:** \$470 per credit

**Military Discount:** \$423

### Job Outcomes, Growth\*, & Salary\*\*

Supervisors of Firefighting Workers

\$ \$78k 📈 +7

Forest Fire Inspectors

\$ \$43k 📈 +11

Forest Fire Suppression Specialist

\$ \$51k 📈 +7

Biological Technicians

\$ \$48k 📈 +10

\*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 Wildland Fire Science and Management

Many of the world's ecosystems depend on fire for regeneration and to maintain biodiversity. The Bachelor of Science in Wildland Fire Science and Management focuses on understanding and managing fire to preserve and protect fire-dependent ecosystems, as well as to protecting ecosystems from wildfire damage. This degree program provides students with a deep understanding of fire science, ecology, management, and policy to assess fire environment and behavior and connect these concepts to environmental consequences facing the planet. Graduates of the program will have the academic skills and knowledge to prepare them for jobs in the wildland fire industry as Forestry Technicians, Wildland Fire Specialists, and Fuel Analysts.

## Job Outcomes, Growth\*, & Salary\*\*



### Supervisors of Firefighting Workers

Median Salary: **\$78k**

Growth: **+7**

Directly supervise and coordinate activities of workers engaged in firefighting and fire prevention and control.

### Forest Fire Suppression Specialist

Median Salary: **\$51k**

Growth: **+7**

Enforce fire regulations, inspect forest for fire hazards, and recommend forest fire prevention or control measures. May report forest fires and weather conditions.

### Biological Technicians

Median Salary: **\$48k**

Growth: **+10**

Assist biological and medical scientists. Set up, operate, and maintain laboratory instruments and equipment, monitor experiments, collect data and samples, make observations, and calculate and record results. May analyze organic substances, such as blood, food, and drugs.

\*Projected 10-year growth

\*\*National median salary

Source: O\*Net

### Graduates of the B.S. in Wildland Fire Science and Management will be able to:

- + **Explain** the impact of fire on naturally occurring processes in wildland ecosystems, including water and mineral cycles, energy flow, and plant and animal succession.
- + **Develop** strategic and operational plans for the use of fire in wildland ecosystems management.
- + **Demonstrate** knowledge of laws and policies governing the management and restoration of public and private wildlands.
- + **Recognize** and consider the influence of culture and the needs of diverse entities on strategies for wildland fire management.

### General Education Core

- BIOL 103** Biology: Foundations of Life
- BIOL 104** Biology: Foundations of Life Lab
- BIOL 105** Biological Diversity, Ecology, and Evolution
- BIOL 106** Biological Diversity, Ecology, and Evolution Lab
- CHEM 101** Chemistry I
- CHEM 102** Chemistry I Laboratory
- 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
- ENVS 201** The Warming Planet: Understanding Climate Change
- MATH 201** Statistics for Environmental Professionals
- PHYS 201** Physics 1
- PHYS 202** Physics 1 Lab
- An Arts course
- A Humanities course
- A Language course
- A Social Science course

### 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

### Program Core

- BIOL 201** Organisms that Sustain the Earth: Understanding Plants
- BIOL 203** Ecological Principles: Applications to Conservation and Wildlife
- BIOL 335** Ecology of Fire-Dependent Ecosystems
- BIOL 340** Forest Ecology
- BIOL 345** Rangeland Ecosystems
- ENCJ 305** Natural Resource Law and Policy
- ENVJ 310** Fire and Culture
- ESCI 201** Meteorology
- ESCI 405** Wildland Fire Operations & Planning
- EVHS 210** Fire Protection and Safety
- GISC 101** Introduction to Geographic Information Systems (GIS)
- GISC 201** Geographic Information Systems for a Changing World
- GISC 405** GIS Applications in Fire Ecology

### General Electives

26 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

## 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.



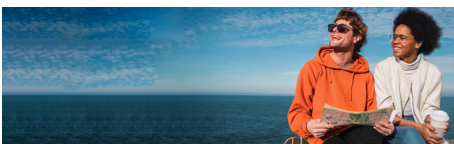
### Wildlife Ecology

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.