

Bachelor of Science in Medicinal Plant Sciences-DE

Length: **34 Months**

Credential: **Bachelor of Science Degree**

Campus: **Bangor, Maine**

Delivery Method: **Online**

The Medicinal Plant Sciences program is a Bachelor of Science degree that is designed to offer students a broad survey of the physical, chemical, and biological sciences, as well as provide a foundational introduction to the medicinal plant sciences. Additionally, the program offers an array of cannabis-specific instruction, including an overview of analytical methodologies. Upper-level coursework emphasizes critical thinking, research, and communication skills. This degree prepares students for direct entry into research, laboratory, manufacturing, cultivation, and product development roles. Students will be required to complete out-of-class assignments, including, but not limited to, reading, quizzes, problem solving exercises, projects, research, papers, and presentations. A student can anticipate out-of-class activities that equal about two (2) hours for every one (1) hour of lecture, and about one (1) hour for every one (1) hour of lab. Upon successful completion of the program (see Graduation Requirements section of the catalog), students could enhance an existing biological science technician career, or seek, or obtain entry-level employment in a medicinal plant science related field.

Program Outcomes:

At the completion of this program, students should be able to:

- Demonstrate competency across the physical and biological sciences, including biology and chemistry.
- Demonstrate competency across the medicinal plant sciences, including plant biology, phytochemistry, and ethnobotany.
- Demonstrate a foundational understanding of cannabis analytical methodologies.
- Demonstrate competency in critical thinking, research, and both written and oral communication.

Course Code	Course Title	Contact Hours	Semester Credit Hours
Concentration Requirements			
BIO210	Biology	75	4.0
BIO250	Molecular Biology	90	4.0
BIO320	Environmental Biology	45	3.0
BIO330	Biochemistry	75	4.0
CA201	Introduction to Cannabis I	60	4.0
CA202	Introduction to Cannabis II	60	4.0
CA220	Cannabis Product Development	45	3.0
CHEM240	Chemistry	75	4.0
CHEM241	Chemistry II	75	4.0
CHEM300	Organic Chemistry	75	4.0
CHEM301	Organic Chemistry II	75	4.0
MPS210	Plant Biology	60	4.0
MPS215	Plant Physiology	60	4.0
MPS250	Ethnobotany	60	4.0
MPS315	Plant Sciences Research	60	4.0
MPS320	Phytochemistry	60	4.0
MPS325	Pharmacognosy	60	4.0
MPS340	Cannabis Laboratory Fundamentals	75	5.0
MPS475	Medicinal Plant Sciences Capstone	60	4.0
PHY200	Physics I	75	4.0
PHY210	Physics II	75	4.0
	Subtotal	1,395	83.0
General Education Requirements			
CS115	Introduction to Computer Concepts and Applications	45	3.0
EH102	Speech	45	3.0
EH111	College Composition	45	3.0
GEN305	Advanced Written Communications	45	3.0
GEN310	Advanced Oral Communications	45	3.0
GEN315	Principles of Economics	45	3.0
HY103	U.S. History 1865 to the Present	45	3.0
MS110	College Algebra	45	3.0
MS210	Math Applications for Physics	45	3.0
MS315	Statistics	60	4.0
PY101	Introduction to Psychology	45	3.0
SC101	Introduction to Sociology	45	3.0
	Subtotal	555	37.0
	Grand Total	1,950	120.0