

**Bergen Community College**  
**Division of Mathematics, Science & Technology**  
**Department of Biology and Horticulture**

**BIO-251**  
**Commercial Practices used in the Cultivation of Cannabis Species**  
**General Course Syllabus**

**Semester and year:**  
**Section number:**  
**Meeting times and locations:**  
**Instructor:**  
**Office Location:**  
**Phone:**  
**Office Hours:**  
**Email Address:**

**Course Description:**

**Commercial Practices used in the Cultivation of Cannabis Species**

This course explores the controlled atmosphere production facilities, such as greenhouse and growth chambers, for medical cannabis, and field production of industrial hemp. The environmental, biological, chemical, and cultural practices used in cannabis cultivation are discussed and demonstrated under greenhouse and field conditions. Student projects and hands-on research are a significant portion of the laboratory sessions.

**Prerequisites:** HRT101 Plant Science and HRT232 Plant Propagation or permission of the instructor

**General Education Course:** No

**Course Credits:** 3

**Hours per week:** 4, 2 hours lecture and 2 hours lab

**Course Coordinator:** Steven Fischer

**Required Text:** Marijuana Horticulture: The Indoor-Outdoor Medical Grower's Bible; Jorge Cervantes

**Required Laboratory Manual:** None; all materials will be provided in print or as online links.

**Supplementary Materials:** You will need to provide: a class binder for handouts and notes, estimate 2/5"-3.0" binder, part of which will be a lab notebook section.

## **Student Learning Outcomes:**

- 1. GAIN AN UNDERSTANDING OF PLANT CULTURE IN GENERAL AND A SPECIFIC UNDERSTANDING OF THE ROLE THAT THE CANNABIS PLANT HAS IN TODAY'S SOCIETY.**
- 2. UNDERSTAND THE TERMS AND TECHNOLOGIES USED IN ALL ASPECTS OF THE GROWING, HARVESTING AND PROCESSING OF COMMERCIAL CANNABINOID PRODUCTS.**
- 3. RESEARCH PERSONS AND ORGANIZATIONS THAT HAVE A PROVEN RECORD OF ACCOMPLISHMENT IN BOTH THE MEDICAL AND INDUSTRIAL USES OF CANNABIS SPECIES.**
- 4. EXPLORE PERSONAL ETHICS RELATIVE TO CLINICAL USES OF MEDICAL MARIJUANA.**
- 5. DESCRIBE THE HUMAN PHYSIOLOGY OF MEDICAL MARIJUANA USE.**
- 6. IDENTIFY THE CULTURAL NEEDS FOR THE PRODUCTION OF MEDICAL AND INDUSTRIAL CANNABIS SPECIES.**
- 7. RESEARCH RECENT SCHOLARLY PUBLICATIONS ON THE MEDICINAL AND INDUSTRIAL USES OF CANNABIS SPECIES.**
- 8. INTERACT WITH POTENTIAL EMPLOYERS AND SURVEY A VARIETY OF EMPLOYMENT OPTIONS.**

STUDENTS WISHING TO CONTINUE A STUDY IN PLANT SCIENCES AND MEDICINAL PLANTS MAY CHOOSE TO CONTINUE WITH COURSES IN THE BIOLOGY/HORTICULTURE PROGRAM.

NOTE: ENTRY LEVEL EMPLOYMENT IN THIS FIELD INVOLVES A VARIETY OF CAREER PATHS. JOBS IN THIS INDUSTRY INCLUDE: PRODUCTION OF A PLANT, PROCESSING OF THE ACTIVE PLANT INGREDIENTS, PRODUCT DEVELOPMENT, HUMAN WELFARE AND ECONOMIC SUSTAINABILITY AS WELL AS MARKETING AND SALES.

**Assessment Tools:**

The above student learning objectives will be assessed or evaluated by instructors using a variety of assessment instruments including **lecture exams, laboratory exams, quizzes, laboratory reports, written reports, presentations, projects, etc.**

The final grade in this course will be based on:

2 lecture tests (20% each)	40%
2 Project Presentations	
Individual	15%
Group	15%
Lecture and Lab Notes	10%
Lab Practical	10%
Participation	<u>10%</u>
	100%

Accommodations for Disabilities: Bergen Community College aims to create inclusive learning environments where all students have maximum opportunities for success. Any student who feels he or she may need an accommodation based on the impact of a disability should contact the Office of Specialized Services at 201-612-5269 or via email at [ossinfo@bergen.edu](mailto:ossinfo@bergen.edu) for assistance.

<b>The Distance Learning Office-for any problems you may have accessing your online courses</b>	<b>Room C-334</b>	<b>210-612-5581 psimms@bergen.edu</b>
Smartthinking Tutorial Service	On Line at:	<a href="http://www.bergen.edu/library/learning/tutor/smart/index.asp">www.bergen.edu/library/learning/tutor/smart/index.asp</a>
The Tutoring Center	Room L-125	201-447-7908
The Writing Center	Room L-125	201-447-7908
The Online Writing Lab (OWL)	On Line at:	<a href="http://www.bergen.edu/owl">www.bergen.edu/owl</a>
The Office of Specialized Services (for Students with Disabilities)	Room S-131	201-612-5270 <a href="http://www.bergen.edu/oss">www.bergen.edu/oss</a>
The Sidney Silverman Library	Room L-226	201-447-7436

