

CANNABIS BIOLOGY & CHEMISTRY, POST- BACCALAUREATE CERTIFICATE

CBC 563	Medicinal Chemistry & Pharmacology	3
CBC 593	Seminar	1

The Cannabis Biology and Chemistry Certificate Program is a 9-credit hour certificate program offered at the undergraduate and graduate levels that is housed in the Chemistry Department. The Program is designed for students with a strong biology or chemistry background or students with an undergraduate degree in biology or chemistry to gain advanced coursework relevant to cannabis sciences.

Specific Admission Requirements

An applicant for the graduate certificate must be admitted as a graduate student and can then complete the certificate in non-degree status. Colorado residents can complete the certificate as guest (for credit) students. If a student decides to later pursue the MS in Cannabis Biology and Chemistry, the student must apply and be accepted to that degree program; credits completed toward the certificate can be applied toward the degree.

Program Goals

The Cannabis Biology and Chemistry Certificate Program is designed for students with a strong background in Biology and Chemistry who wish to apply these skills and knowledge in the area of cannabis science.

Student Learning Outcomes

- Students will understand advanced chemical and biological principles applied in these fields and how those principles can be applied to the emerging field of cannabis science.
- Students will understand cannabis physiology and growth, the pharmacological implications, and the practical applications for the industry.
- Students will use contemporary instruments and techniques for studying plant biological and chemical processes.

Outcomes Assessment Activities

Within the Department's existing assessment structures, the performance of Certificate students in the specific courses will be evaluated separately from other students.

Specific Program Requirements

A student must complete a minimum of 9 credit hours of CBC coursework at the graduate level for the Certificate. Students may select from the listed courses. A student will receive a Cannabis Biology and Chemistry Certificate after completing 9 credits of the following courses with a grade of C or better.

Course	Title	Credits
CBC 501	Medicinal Plant Biochemistry	3
CBC 513	Cannabis Physiology & Growth	3
CBC 513L	Cannabis Physiology & Growth Lab	1
CBC 522	Natural Products Extraction & Analysis	3
CBC 522L	Natural Products Extraction & Analysis Lab	1