Cannabis Chemistry & Therapeutics certificate programs

Coordinator: Karina Ckless Department of Chemistry and Biochemistry

The Cannabis Certificate program will provide a **foundation of knowledge for the cannabis industry** with an overview of the chemistry and botany of the cannabis, cannabinoid pharmacology and a brief view of the multidisciplinary aspects of the cannabis industry. Therefore, our program will focus on these two pillars:

- <u>Workforce</u>: As the cannabis industry grows, so does the demand for skilled professionals. We will offer our graduates a specialized pathway to gain expertise, preparing them to meet the workforce needs and lead in this transformative field.
- <u>Science and Evidence-based knowledge</u>: Educate enrolled students and the community at large on many aspects of cannabis industry, from the plant's basic science to its therapeutic uses, potential toxicities, and the complex regulatory landscape.

Unique program:

- Science-based and hands on courses, research and internships in the cannabis testing industry: CHE 320 Phytochemistry of Cannabis; CHE 440 Analytical Techniques for Cannabis, CHE Biochemistry and Pharmacology of Cannabis, CHE 498 internship; CHE 495 Research.
- Interdisciplinary educational component: CRI 371 Substance Abuse and the Criminal Justice System; GWS 350 Feminist Science Studies, CHE 330 Cannabis seminar (with invited speakers and Cannabis themed talks).

Fall 2025:

- CHE 450 Biochemistry and Pharmacology of Cannabis (3 cr.)
- CRI 371 Substance Abuse and the Criminal Justice System (3 cr.) WEB
- CHE 495 Cannabis research.

Summer 2025:

- CHE 498 Cannabis-related Internships. (CHE 320 course recommended)
- CHE 495 Cannabis research.

Spring 2026:

- CHE 440 Analytical techniques in Cannabis (4 cr.). Schedule TBA
- CHE 330 Cannabis seminar (1 cr.) Schedule TBA.
- GWS 350 Feminist Science Studies (3 cr.) Schedule TBA.
- CHE 495 Cannabis research.

X Program Requirements for Cannabis Chemistry Certificate	X Program Requirements for Cannabis Therapeutics Certificate	
Cannabis Chemistry Certificate	Cannabis Therapeutics Certificate	ulum 0045
For more infopmation contact the <u>Chemistry & Biochemistry Department</u> . Certificate Requirements 18 Credits • <u>CHE 332 - Chronobils (R. c.)</u> • <u>CHE 433 - Cannabils seminar (1 cr.)</u> • <u>CHE 442 - Analytical Techniques for Cannabils (4 cr.)</u> • <u>CHE 442 - Analytical Techniques for Cannabils (4 cr.)</u> • <u>CHE 442 - Analytical Techniques for Cannabils (4 cr.)</u> • <u>CHE 445 - Feminist Science Studies (3 cr.)</u> Cannabis Chemistry/Testing Applied Learning (6 cr.) • <u>CHE 445 - Undergraduate Research (1 to 6 cr.)</u>	For more information contact the <u>Chemistry & Biochemistry Department</u> . Certificate Requirements 17 Credits . <u>CHE 320 - Phytochemistry of Cannabis (3 cr.)</u> . <u>CHE 320 - Cannabis seminar (1 cr.)</u> . <u>CHE 450 - Biochemistry and Pharmacology of Cannabis (3 cr.)</u> . <u>CHE 450 - Biochemistry and Pharmacology of Cannabis (3 cr.)</u> . <u>CHE 450 - Biochemistry and Pharmacology of Cannabis (3 cr.)</u> . <u>CHE 450 - Biochemistry and Pharmacology of Cannabis (3 cr.)</u> . <u>CHE 450 - Biochemistry and Pharmacology of Cannabis (3 cr.)</u> . <u>CHE 455 - Undergraduato Research (1 to 4 cr.)</u> , or . <u>CHE 450 - Internetipip (1 to 15 cr.)</u>	