MEDICAL CANNABIS SCIENCE AND BUSINESS (MS)

Contacts

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Program Website (https://www.jefferson.edu/academics/colleges-schools-institutes/health-professions/emerging-health-professions/academic-programs/ms-medical-cannabis-science-business.html)

Program Description

The Master of Science in Medical Cannabis Science and Business is designed to provide students with knowledge in cannabis medicine, science, business, and policies, required to enter the cannabis industry, support patients, add to existing research, and develop innovative cannabis business models.

The MS degree program encompasses three stackable graduate certificates in the following areas:

- Cannabis Medicine (clinical applications, physiological impacts, therapies, and health effects)
- Cannabis Science (botany, chemistry, pharmacology, and toxicology)
- Cannabis Business (regulations, management, operations, financial analysis, and business model innovation)

Learning Goals/Outcomes

- Apply concepts of analytical chemistry, pharmacology, pharmacognosy, and pharmaceutics and drug development to assure safety and quality of cannabis products, and to develop and manufacture new cannabis strains.
- Explain mechanisms of action, functional roles, and absorption/ distribution/ metabolism/ excretion of cannabinoids in humans.
- Apply clinical and basic sciences knowledge to identify evidence-based cannabis therapies for specific medical conditions, describe proper administration and safe dosing, and identify physical, psychiatric, and psychological effects of medical cannabis.
- Blend knowledge and skill sets from different disciplinary areas to develop effective business strategies.
- Apply knowledge of historical and current cultural and policy perspectives to Identify, analyze, and advocate for emerging issues related to the cannabis industry.
- Identify areas for future research related to science, health effects, therapeutic and/or business of medical cannabis, and design a grounded research study using the principles of research to address one specific issue.

Curriculum: 33 credits

Code	Title	Credits
Cannabis Medicine Select two (6 credits)		6
CMD 505	Hlth Implicat of Med Cannabis	
CMD 506	Cann Med & Nerv System Disord	
CMD 507	Cann Medicine and Somatic Dis	
Cannabis Science Select two (6 credits)		6
CSC 511	Botany and Chem of Cannabis	
CSC 512	Forensic Analysis of Cannabis	
CSC 513	Cannabinoid Pharmacology	
Cannabus Business Select two (6 credits)		6
CBU 501	Emerg Iss in Cannabis Industry	
CBU 506	Ess/Cannabis Fin & Op Analysis	
MBX 604	Business Model Innovation	
Cannabis Research (6 credits)		6
CRS 600	Applied Rsrch Design & Methods	
CRS 610	Cannabis Capstone Project	
Select any three additional courses from CMD, CSC, CBU, CCT, or CSO (9 credits)		9
Total Credits		**33**