

MEDICAL CANNABIS SCIENCE AND BUSINESS (MS)

Contacts

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Campus: Center City
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

Designed to provide students with the 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 pharmaceuticals 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 appropriate cannabis therapies for specific medical conditions, determine proper administration and safe dosing, and identify physical, psychiatric, and psychological effects.
- 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

To earn the MS in Medical Cannabis Science and Business students must satisfy the following requirements:

Code	Title	Credits
CMD Courses (Select Two)		
CMD 503	Path Poten Respon to Cannabis	3
CMD 504	Convent & Cannab Therap of Dis	3
CMD 505	Hlth Implicat of Med Cannabis	3
CSC Courses (Select Two)		
CSC 511	Botany and Chem of Cannabis	3
CSC 512	Forensic Analysis of Cannabis	3
CSC 513	Cannabinoid Pharmacology	3
CBU or iMBA Courses (Select Two)		
CBU 501	Emerg Iss in Cannabis Industry	3
CBU 506	Ess/Cannabis Fin & Op Analysis	3
IMBA 604	Business Model Innovation	3
Select Any Three Courses (CMD, CSC, CBU, CCT or CSO)		