CANNABIS SCIENCE AND OPERATIONS (CSO)

CSO 1000 - Cannabis Fundamentals: Growing, Manufacturing & Dispensing  
Credit(s): 3 Credits  
Cannabis Fundamentals provides students with an overview of the science of growing the cannabis plant, the manufacturing and processing of products from cannabis, and the dispensing of cannabis for medical and therapeutic use. The topics covered in this course include cannabis terminology, a review of the history of the industry, cultural norms, common interactions within the human body. Additionally, students learn about the horticultural principles of growing and harvesting cannabis, equipment, oil extraction techniques, modes of dispensing cannabis, and regulations.  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

CSO 1500 - Cannabis Plant Science & Cultivation  
Credit(s): 3 Credits  
Cannabis Plant Science and Cultivation introduces student to growing and developing the cannabis plant for use in the pharmaceutical, construction, and agricultural sectors. This course includes plant botany (physiology, structure, genetics, ecology), seed procurement and storage, seed germination, cutting propagation, soil science, water management, plant anatomy identification, growing and flowering stages, and harvesting techniques.  
Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

CSO 1600 - Cannabis Extraction & Product Production  
Credit(s): 3 Credits  
Cannabis Extraction & Product Production provides students with information relevant to the extraction and manufacturing of cannabis. Course topics include laboratory safety, basic chemistry concepts, solvent-less extraction, solvent based extraction, cleaning up extractions, final product forms, packaging, testing, equipment sanitation, Missouri food code, good manufacturing practices, inventory management, order processing and security.  
Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

CSO 1700 - Cannabis Compliance & Dispensing  
Credit(s): 3 Credits  
Cannabis Compliance & Dispensing will focus on the roles, responsibilities and legal requirements of a dispensary in the distribution of information and products to the consumer. Topics covered include statutory provisions and regulations, types of dispensing operations, personnel, employee training requirements, physical facilities, zoning, security, inventory control, recordkeeping, cleaning and sanitation, consumer rights and responsibilities, efficacy and patient care issues.  
Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

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Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
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CSO 2000 - Pharmacological Properties of Cannabis  
Credit(s): 3 Credits  
Pharmacological Properties of Cannabis introduces students to the chemical characteristics of the cannabis components and the factors that influence drug interaction within the body. Topics covered include receptor theory, chemical absorption, distribution, metabolism, excretion, and dose-response relationships. This course also examines the symptoms treated by cannabis and evidence of the effectiveness of cannabis in treating patients.  
Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

CSO 2910 - Cannabis Operations Internship  
Credit(s): 1 Credit  
Cannabis Operations Internship I allows students to gain hands-on experience in cannabis growing, manufacturing and/or distribution operations under the direction of industry professionals. This experience may be full time or part-time as required by the industry sponsor.  
Prerequisite(s): CSO 1000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.

CSO 2960 - Cannabis Operations and Science Capstone  
Credit(s): 1 Credit  
The Cannabis Science and Operations Capstone Course provides an opportunity for students to apply the knowledge gained from their academic studies regarding medical cannabis and CBD through a culminating project. Each student is expected to demonstrate a synthesis and application of the knowledge gained from all courses in the CSO program that will describe how medical cannabis and CBD impact society, history, community, and economics. This course will also allow you to showcase your knowledge, skills, and experience you possess as a professional in the medical cannabis industry. Prerequisite: CSO2000 or by consent of the Program Director.  
Prerequisite(s): CSO 2000  
Restrictions:  
Enrollment limited to students in the Schl for Professional Studies college.  
Students in the Madrid, Spain campus may not enroll.
CSO 5000 - Medical Cannabis History, Society and Science
Credit(s): 3 Credits
Medical Cannabis History, Society and Science establishes the foundational body of knowledge essential to inform the practice of professionals who engage in the work of therapeutic management using cannabis. Topics include: cannabis terminology, societal norms, Missouri’s medical cannabis program, forms of medical cannabis (inhalation, vaping, edibles, tinctures, topicals), growing, extraction and distribution, chemistry, metabolism, toxicology, and the ethical uses of medical cannabis therapy.
Restrictions:
Enrollment limited to students in the Schl for Professional Studies college.

CSO 5100 - Cannabis Pharmacology
Credit(s): 3 Credits
Cannabis Pharmacology provides a comprehensive examination of the uses, modes of actions and effects of cannabinoids and terpenes within the human body. Topics include: receptor theory, pharmacogenetics, pharmacodynamics, dose-response relationships, drug metabolism, tolerance, dependence, and the endocannabinoid system. Cannabis Pharmacology will also include an analysis on how to review and interpret cannabis related clinical literature.
Prerequisite(s): CSO 5000 with a grade of C or higher
Restrictions:
Enrollment limited to students in the Schl for Professional Studies college.

CSO 5200 - Health Implications and Management Using Medical Cannabis
Credit(s): 3 Credits
Health Implications and Management Using Medical Cannabis informs health care professionals how to apply clinical and basic scientific knowledge to identify appropriate cannabis therapies to manage approved medical conditions, and as a therapeutic intervention tool for promoting health and well-being. Topics include: a review of conditions treated using medical cannabis, strain selection and dosing, side effects, caring for patients using medical cannabis in a clinic, home and public settings, and ethical and safety considerations regarding a patient’s treatment with medical cannabis.
Prerequisite(s): CSO 5000 with a grade of C or higher
Restrictions:
Enrollment limited to students in the Schl for Professional Studies college.

CSO 5300 - Cannabis Entrepreneurship, Law and Compliance
Credit(s): 3 Credits
Medical Cannabis History, Society and Science establishes the foundational body of knowledge essential to inform the practice of professionals who engage in the work of therapeutic management using cannabis. Topics include: cannabis terminology, societal norms, Missouri’s medical cannabis program, forms of medical cannabis (inhalation, vaping, edibles, tinctures, topicals), growing, extraction and distribution, chemistry, metabolism, toxicology, and the ethical uses of medical cannabis therapy.
Prerequisite(s): CSO 5000 with a grade of C or higher
Restrictions:
Enrollment limited to students in the Schl for Professional Studies college.