

Module 1. Cannabis Then & Now: A Historic Perspective



- Uses of the cannabis plant throughout the ages
- Cannabis use in ancient cultures: China, Egypt, India
- Early American medical and pharmaceutical applications
- Demon Days: how cannabis and marijuana came to be vilified
- The Restoration: a slow process of funded research, medical recognition and ongoing legalization
- Hemp: Past, Present and Future Applications

Module 2. The Science of Cannabis Biology, chemistry, neurology, and physics of cannabis

- Chemical components of the cannabis plant
- Different strains of the cannabis plant
- Phyto-Cannabinoids
- Interaction with other pharmaceutical and healing agents
- The Cannabis/Human Interface: The Endocannabinoid System
- How it works
- Receptors
- Overview of the specific conditions that are affected by the endocannabinoid system
- What current research is being done in the US (e.g. NIH, NSF)
- How cannabis is being used and researched in other nations

Module 3. CBD Overview

- What is CBD and how it differs from other cannabinoids
- Understanding the basic chemistry and extraction process
- Importance of sourcing out pesticide- and mold-free strains
- Delivery methods (oils, vapes, cremes, etc.)
- Research on CBD for treatment for chronic inflammatory conditions (markers for disease and obesity in our culture)
- How CBD works in Pain management
- Reference manual for the most common uses of CBD
- Veterinary uses of CBD

Module 4. THC Overview

- Neuroscience of THC
- Benefits and Effects of THC
- Research on THC for Specific Conditions
- Terpenes, Terpenoids, Trichomes and their Impact on the ECS

Module 5. Delivery Methods: How Benefits are Administered

- Smoking vs. vaporizing
- Inhaling vs. consuming
- Trans-dermal
- Cooking (marijuana-medicated foods)
- Infusions (oils, extracts, butter)
- Edibles
- Teas
- Waters

- Juicing Leaves
- Hemp

Module 6. Cannabis and Mental Health

- Research on Cannabis for stress, anxiety, insomnia, and PTSD
- Applications in Dis-ease (Crohn's etc.)
- Cancer Research re Cannabis
- Cannabis & Geriatrics (dementia, Parkinson's, etc.)

Module 7. Cannabis Properties

- Neurogenesis
- Hormones
- RSO/FECO
- Canines
- Munchies