

Syllabus: Substances and Behavior: The Psychology and Physiology of Addiction Summer 2020

Instructor: Randall Webber, MPH, CADC.

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Course Description: This course is designed to acquaint students with 1) the physiological and psychological effects of psychoactive substances; 2) Medication-assisted treatment associated with alcohol and other drug use disorders; 3) theories of the etiology and nature of substance use disorders; 4) clinical definitions of “addiction” (substance use disorders)

Instructional methods: Teaching strategies used in the course include didactic lecture, PowerPoint slides and handouts, video presentations and group discussion.

Text and Other Required Reading (available free of charge online or at cost from the instructor):

1. Webber, Randall (2014). Street Drug Pharmacology: Chapters I-VIII.¹
2. Webber, Randall (2013). The Pharmacology & Physiology of Alcohol and Alcoholism²
3. Webber, Randall (2016). Synthetic and Emerging Drugs of Abuse³
4. Webber, Randall (2008): Principles of Substance Dependency⁴
5. Webber, Randall (2010): Medication-Assisted Treatment of Opiate Use Disorders⁵
6. Webber, Randall (2011): Theories of Substance Abuse⁶
7. Other reading as assigned

Other Materials: PowerPoint slides for each Chapter, posted at <http://www.randallwebber.com>

Course Schedule

Week One June 6, 2021): DSM-V Criteria for Substance Use Disorders

Week Two: Introduction to Street Drug Pharmacology

Reading assignment: Webber: Chapter I

Week Three: Amphetamines, Cocaine and Other Stimulants/Opiates Part I

Reading assignment: Webber (2014): Chapter II

Week Four: Opiates Part II/ Medication-Assisted Treatment of Opiate Dependency

Reading assignment: Webber (2014): Chapter V

Week Five: Hallucinogens/ CNS Depressants (sedatives & benzodiazepines)

1. Reading assignment: Webber (2014): Chapter III & IV

¹ Unpublished monograph

² Unpublished monograph

³ Unpublished monograph

⁴ Unpublished PowerPoint slides and handout

⁵ Unpublished PowerPoint slides and handout

⁶ Unpublished PowerPoint slides and handout

Week Six: Midterm Exam/The Pharmacology of Physiology of Alcohol & Alcoholism

1. Webber (2013)

Week Seven: The Pharmacology of Physiology of Alcohol & Alcoholism (Continued)

Week Eight: Cannabis/Dissociative Anesthetics

Reading Assignment: Webber (2014) Chapters VI and VII

Week Nine: Inhalants and the Substituted Amphetamines/ Theories of the origin and nature of substance dependency

Reading Assignment: Webber (2014) Chapters VI and VII; Webber 2011

Week Ten: Evidence-based Practice for the Treatment of Substance Use Disorders

Readings TBA

Week Eleven: Synthetic and Emerging Drugs of Abuse

Reading assignment: Webber (2016)

Week Twelve: Course Review

Week Thirteen: Final Exam