

Syllabus: Substances and Behavior: The Psychology and Physiology of Addiction Winter 2022

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) theories of the origins and nature of substance use problems; 3) evidence-based practices for the treatment of addiction

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 (2020). Street Drug Pharmacology: Chapters I-VIII.¹
2. Webber, Randall (2020). 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 (January 15, 2021): 1) Introduction to class; 2) DSM-V Criteria for Substance Use Disorders; 3) Introduction to Street Drug Pharmacology (I)

Week Two: Introduction to Street Drug Pharmacology (II)

Reading assignment: Webber 2020 (Street Drug Pharmacology): Chapter I

Week Three: Introduction to Street Drug Pharmacology (continued)

Week Four: Amphetamines, Cocaine and Other Stimulants

Reading assignment: Webber (2020): Chapter II

Week Five: Opioids/ Medication-Assisted Treatment of Opiate Dependency

¹ Unpublished monograph

² Unpublished monograph

³ Unpublished monograph

⁴ Unpublished PowerPoint slides and handout

⁵ Unpublished PowerPoint slides and handout

⁶ Unpublished PowerPoint slides and handout

Reading assignment: Webber (2020): Chapter V

Week Six: Opioids/ Medication-Assisted Treatment of Opiate Dependency (continued)

Week Seven: Hallucinogens/ Course Review

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

Week Eight: Midterm Exam/ CNS Depressants (sedatives & benzodiazepines)

1. Reading assignment: Webber (2020): Chapter IV

Week Nine: The Pharmacology of Physiology of Alcohol & Alcoholism

1. Webber (2020)

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

Week Eleven: Midterm Exam, Cannabis/Dissociative Anesthetics

Reading Assignment: Webber (2020) Chapters VI and VII

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

Reading Assignment: Webber (2020) Chapters VI and VII; Webber 2011

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

Week Fourteen: Evidence-based Practice for the Treatment of Substance Use Disorders/Recovery Management

Readings TBA

Week Fifteen: Synthetic and Emerging Drugs of Abuse

Reading assignment: Webber (2016)

Week Sixteen: Course Review

Week Seventeen: Final Exam