



Chaminade
University
OF HONOLULU

HAWAI'I SCHOOL OF PROFESSIONAL
PSYCHOLOGY
AT CHAMINADE UNIVERSITY OF HONOLULU

Course Syllabus

[Chaminade University Honolulu](http://www.chaminade.edu)

3140 Wai'ālae Avenue - Honolulu, HI 96816

www.chaminade.edu

Course Number: PP7360

Course Title: Clinical Psychopharmacology

Department Name: Hawai'i School of Professional Psychology

College/School/Division Name: College of Education and Behavioral Sciences

Term: Spring 2024

Course Credits: 03

Class Meeting Days: Tuesdays

Class Meeting Hours: 6:00 pm to 9:00 pm

Class Location: Kieffer Hall, RM. 9

Instructor Name: Sherry Sutherland-Choy, Psy.D, MSN, APRN-Rx, FNP-B.C., PMNP-B.C.

Email: Sherry.Sutherland-Choy@Chaminade.edu

Phone: 808-728-2895

Office Location: Kieffer Hall, RM. 11A

Office Hours: By Appointment

University Course Catalog Description and Overview: This course introduces psychotropic drugs, their neurochemical basis, their mechanism of action, and their clinical application.

Instructional Contact and Credit Hours

Students can expect 15 hours of instructional engagement for every 1 semester credit hour of a course. Instructional engagement activities include lectures, presentations, discussions, group work, and other activities that would normally occur during class time. Instructional engagement activities may occur in a face-to-face meeting or in the classroom.

In addition to instructional engagement, students can expect to complete 30 hours of outside work for every 1 semester credit hour of a course. Outside work includes preparing for and completing readings and assignments. Such outside work includes, but is not limited to, all research associated with completing assignments, work with others to complete a group project, participation in tutorials, labs, simulations and other electronic activities that are not a part of the instructional engagement, as well as any activities related to preparation for instructional engagement.

At least an equivalent amount of work specified in the paragraph above shall be applied for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

Marianist Values

This class represents one component of your education at Chaminade University of Honolulu. An education in the Marianist Tradition is marked by five principles and you should take every opportunity possible to reflect upon the role of these characteristics in your education and development:

- Education for formation in faith

- Provide an integral, quality education
- Educate in family spirit
- Educate for service, justice and peace
- Educate for adaptation and change

Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the ‘Ōlelo No‘eau (Hawai‘ian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua (‘Ōlelo No‘eau 364) May I live by God
2. Provide an Integral, Quality Education (Na‘auao) Lawe i ka ma‘alea a kū‘ono‘ono (‘Ōlelo No‘eau 1957) Acquire skill and make it deep
3. Educate in Family Spirit (‘Ohana) ‘Ike aku, ‘ike mai, kōkua aku kōkua mai; pela iho la ka nohana ‘ohana (‘Ōlelo No‘eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
4. Educate for Service, Justice and Peace (Aloha) Ka lama kū o ka no‘eau (‘Ōlelo No‘eau 1430) Education is the standing torch of wisdom
5. Educate for Adaptation and Change (Aina) ‘A‘ohe pau ka ‘ike i ka hālau ho‘okahi (‘Ōlelo No‘eau 203) All knowledge is not taught in the same school

Program Learning Outcomes: HSPP Aims and Competencies

The Hawai‘i School of Professional Psychology at Chaminade University of Honolulu’s clinical psychology doctoral program’s aim is to educate and train students employing a practitioner-scholar model so that they will be able to function effectively as clinical psychologists. To ensure that students are adequately prepared, the curriculum is designed to provide for the meaningful integration of psychological science, theory, and clinical practice. The clinical psychology program at the Hawai‘i School of Professional Psychology is designed to emphasize the development of knowledge, skills, and attitudes essential in the training of health service psychologists who are committed to the ethical provision of quality, evidence based services to diverse populations and who are able to apply multiple theoretical perspectives to clinical issues.

The Hawai‘i School of Professional Psychology at Chaminade University of Honolulu’s clinical psychology doctoral program subscribes to the American Psychological Association (APA) Standards of Accreditation. As such, students are expected to establish an identity in and orientation to health service psychology by acquiring the necessary discipline-specific knowledge and profession-wide competencies. Upon completion of the PSYD degree in clinical psychology, students will be able to:

1. Apply ethical and legal standards relevant to the practice of clinical psychology, including professional ethics that guide professional behavior.
2. Apply professional communication and interpersonal skills, to include the utilization of clear, informed, and well-integrated communication, as well as effective interpersonal skills across settings.
3. Apply professional values and attitudes across settings, including self-reflective practice and openness to supervision and feedback.
4. Apply awareness of individual and cultural diversity, including knowledge of theoretical models and diversity research that serve to guide the application of diversity competence.
5. Articulate and integrate the history and systems of psychology as well as the basic areas in scientific psychology, including affective, biological, cognitive, developmental, psychopharmacological, and sociocultural aspects of behavior.
6. Conduct science in psychology, applying psychometrics, statistical analyses, and quantitative and qualitative research methods.
7. Competently perform psychological assessments, including the ability to administer, interpret, integrate, and convey results of psychological tests.

8. Competently perform clinical interventions, including case formulation, theoretical conceptualization, developing and applying evidence-based treatment plans, and evaluating treatment effectiveness in work with clients.
9. Apply knowledge of consultation models and practices, including interprofessional and interdisciplinary skills in consultative services.
10. Articulate supervision models and practices, including areas of ethics and potential conflicts.
11. Apply the Marianist values, through acts of community service, justice, and peace.

Course Learning Outcomes

1. Students will analyze the biological basis pertaining to the symptomatology of major psychiatric disorders, organic brain diseases, and current pharmacotherapies. (Competency 5)
2. Students will critically review articles selected from professional, theoretical, and research literature related to psychopharmacology, understand how drug discoveries are made, and to examine their implications for practice. (Competency 6)
3. Students will demonstrate knowledge of the fundamental principles of psychopharmacology (e.g., drugs' mechanism of action, therapeutic indications, drug-to-drug interactions, and physiological/behavioral side effects). (Competency 5)
4. Students will generate diversity-informed case presentations and treatment plans. (Competency 4)
5. Students will apply their understanding of the application of the APA Practice Guidelines Regarding Psychologists' Involvement in Pharmacological Issues that arise in clinical practice. (Competency 1)

Required Learning Materials

Required Textbooks

Julien, R. M., Advokat, C. D., & Comaty, J. E. (2023). *Julien's Primer of Drug Action*. Worth Publishers

Required Readings

Alchakee, A., Ahmed, M., Eldohaji, L., Alhaj, H., & Saber-Ayad, M. (2022). Pharmacogenomics in Psychiatry Practice: The Value and the Challenges. *International journal of molecular sciences*, 23(21), 13485. <https://doi.org/10.3390/ijms232113485>

Al-Haddad, B. J. S., Oler, E., Armistead, B., Elsayed, N. A., Weinberger, D. R., Bernier, R., Burd, I., Kapur, R., Jacobsson, B., Wang, C., Mysorekar, I., Rajagopal, L., & Adams Waldorf, K. M. (2019). The fetal origins of mental illness. *American Journal of Obstetrics and Gynecology*, 221(6), 549–562. <https://doi.org/10.1016/j.ajog.2019.06.013>

Beurel, E., Toups, M., & Nemeroff, C. B. (2020). The Bidirectional Relationship of Depression and Inflammation: Double Trouble. *Neuron*, 107(2), 234–256. <https://doi.org/10.1016/j.neuron.2020.06.002>

Chen, P., Zhang, L., Feng, Y., Liu, Y.-F., Si, T. L., Su, Z., Cheung, T., Ungvari, G. S., Ng, C. H., & Xiang, Y.-T. (2022). Brain-gut axis and psychiatric disorders: A perspective from bibliometric and visual analysis. *Frontiers in Immunology*, 13. <https://doi.org/10.3389/fimmu.2022.1047007>

Garakani, A., Murrough, J. W., Freire, R. C., Thom, R. P., Larkin, K., Buono, F. D., & Iosifescu, D. V. (2020). Pharmacotherapy of Anxiety Disorders: Current and Emerging Treatment Options. *Frontiers in psychiatry*, 11, 595584. <https://doi.org/10.3389/fpsy.2020.595584>

Hachinski, V., Einhäupl, K., Ganten, D., Alladi, S., Brayne, C., Stephan, B. C. M., Sweeney, M. D., Zlokovic, B., Iturria-Medina, Y., Iadecola, C., Nishimura, N., Schaffer, C. B., Whitehead, S. N., Black, S. E., Østergaard, L., Wardlaw, J., Greenberg, S., Friberg, L., Norrving, B., Rowe, B., ... Khachaturian, Z. S. (2019). Preventing dementia by preventing stroke: The Berlin Manifesto. *Alzheimer's & dementia: the journal of the Alzheimer's Association*, 15(7), 961–984. <https://doi.org/10.1016/j.jalz.2019.06.001>

Hinckley, J. D., & Hopfer, C. (2021). Marijuana legalization in Colorado: Increasing Potency, Changing Risk

Perceptions, and Emerging Public Health Concerns for Youth. *Adolescent Psychiatry*, 11. <https://doi.org/10.2174/2210676611666210616163340>

Jayanthi, S., Daiwile, A. P., & Cadet, J. L. (2021). Neurotoxicity of methamphetamine: Main effects and mechanisms. *Experimental neurology*, 344, 113795. <https://doi.org/10.1016/j.expneurol.2021.113795>

Judd, D., King, C. R., & Galke, C. (2023). The Opioid Epidemic: A Review of the Contributing Factors, Negative Consequences, and Best Practices. *Cureus*, 15(7), e41621. <https://doi.org/10.7759/cureus.41621>

Jutla A, Foss-Feig J, Veenstra-VanderWeele J.(2022) Autism spectrum disorder and schizophrenia: An updated conceptual review. *Autism research : official journal of the International Society for Autism Research*, 15(3), 384–412. <https://doi.org/10.1002/aur.2659>

Lippard, E. T. C., & Nemeroff, C. B. (2020). The Devastating Clinical Consequences of Child Abuse and Neglect: Increased Disease Vulnerability and Poor Treatment Response in Mood Disorders. *The American journal of psychiatry*, 177(1), 20–36. <https://doi.org/10.1176/appi.ajp.2019.19010020>

Mattson, S. N., Bernes, G. A., & Doyle, L. R. (2019). Fetal Alcohol Spectrum Disorders: A Review of the Neurobehavioral Deficits Associated With Prenatal Alcohol Exposure. *Alcoholism, clinical and experimental research*, 43(6), 1046–1062. <https://doi.org/10.1111/acer.14040>

Nutt D, Hayes A, Fonville L, Zafar R, Palmer EOC, Paterson L, Lingford-Hughes A.(2021) Alcohol and the Brain. *Nutrients*, 13(11):3938. doi: 10.3390/nu13113938. PMID: 34836193; PMCID: PMC8625009.

Perry, A., Gordon-Smith, K., Jones, L., & Jones, I. (2021). Phenomenology, Epidemiology and Aetiology of Postpartum Psychosis: A Review. *Brain sciences*, 11(1), 47. <https://doi.org/10.3390/brainsci11010047>

Simpson, S., Mclellan, R., Wellmeyer, E., Matalon, F., & George, O. (2022). Drugs and Bugs: The Gut-Brain Axis and Substance Use Disorders. *Journal of neuroimmune pharmacology: the official journal of the Society on NeuroImmune Pharmacology*, 17(1-2), 33–61. <https://doi.org/10.1007/s11481-021-10022-7>

Stone, L. M. D., Millman, Z. B., Öngür, D., & Shinn, A. K. (2021). The Intersection Between Childhood Trauma, the COVID-19 Pandemic, and Trauma-related and Psychotic Symptoms in People With Psychotic Disorders. *Schizophrenia bulletin open*, 2(1), sgab050. <https://doi.org/10.1093/schizbullopen/sgab050>
<https://doi.org/10.3389/fpsy.2023.1154557>

Wilens, T. E., Woodward, D. W., Ko, J. D., Berger, A. F., Burke, C., & Yule, A. M. (2022). The Impact of Pharmacotherapy of Childhood-Onset Psychiatric Disorders on the Development of Substance Use Disorders. *Journal of child and adolescent psychopharmacology*, 32(4), 200–214. <https://doi.org/10.1089/cap.2022.0016>

Course Requirements

Course Requirements in Relation to Credit Hours. This is a three-credit hour course requiring 135 clock hours of student engagement, per the official CUH Credit Hour Policy. Students enrolled in this doctoral-level course are anticipated to spend a minimum of 45 hours in class. The additional 90+ hours outside of classes are anticipated to equal 2-4 hours per week on course readings and class preparation, and 2-4 hours per week of work on future assignments (e.g., presentations, projects, papers, exams).

Attendance and Participation. Regular attendance and active participation in class discussions are required. Therefore, students are expected to attend every class, arrive on time, complete all assigned readings, actively participate in class discussions, complete all in-class assignments, and behave appropriately and professionally at all times. Failure to meet these expectations will result in an individual meeting with the instructor, and if severe or chronic will result in a meeting with the student's academic advisor for remediation. Late or absent students are responsible for missed material, and more than two unexcused absences will require additional work and may result in loss of credit for the course.

Students are expected to familiarize themselves with all assigned materials ahead of time and to come prepared to discuss and/or apply them in class. The readings listed for a particular class date are the readings that will be discussed on that date, so please read them ahead and come prepared to discuss them or do activities based on the readings.

Quizzes. Five quizzes covering readings and key lecture concepts are scheduled.

Midterm Exam. The midterm exam will be given in class and covers the readings, lectures, and class discussions held up to the midterm.

Case Presentation. You will present a case study (30 minutes) pertaining to psychopharmacology. You will be asked to render a psychiatric diagnosis and write up your differential diagnoses. Please include medical history, psychiatric history, and developmental history, educational history including any specific learning disorder or intellectual disability, legal history, and substance use: illicit, prescribed medications, OTC medications, vitamins and herbal supplements. Based upon the patient's presenting symptoms, you will provide an evidence based treatment plan and medication recommendations. What medication would you suggest and why (provide the rationale for picking this particular medication). Please include on your PowerPoint evidence based therapeutic interventions and emerging/alternative treatments for your patient's condition, the starting dose on the medication you chose, mechanism of drug action, common side effects, serious adverse reactions, drug to drug interactions, and contraindications. In the PowerPoint, write exactly how you would explain the common side effects and adverse effects to someone with no education beyond high school.

Final Exam: The final exam will be given in class and covers the readings, lectures, and class discussions held from the midterm up to the end of the course.

Grading

Project/Assignment	Point Value (out of 100 pts)	Grading Scale Grade point
Attendance and Participation	10 points	
Quizzes	15 points	
Midterm	25 points	
Case Presentation	25 points	
Final Exam	25 points	
Total	100 points	

equivalents (and grading scale values) are presented below. Final scores $> .5$ will be rounded up.

A = 4.00 (93-100)

A- = 3.67 (90-92)

B+ = 3.33 (88-89)

B = 3.00 (83-87)

B- = 2.67 (80-82)

C = 2.00 (70-79); Failed - No credit given

F = 0.00 (≤ 69); Failed - No credit given

Instructional Contact and Credit Hours

The unit of semester credit is defined as university-level credit that is awarded for the completion of coursework. One credit hour reflects the amount of work represented in the intended learning outcomes and verified by evidence of student achievement for those learning outcomes. Each credit hour earned at Chaminade University should result in a minimum of 45 hours of engagement, regardless of varying credits, duration, modality, or degree level. This equates to one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester. Terms that have alternative lengths, such as 10-week terms, should have an equivalent amount of faculty instruction and out-of-class student work to meet each credit hour. Direct instructor engagement and out-of-class work result in total student engagement time of 45 hours for one credit. The number of engagement hours may be higher, as needed to meet specific learning outcomes.

Specific Credit Situations

The minimum 45 hours of engagement per credit hour can be satisfied in fully online, internship, or other specialized courses through several means, including (a) regular online instruction or interaction with the faculty member and fellow students and (b) academic engagement through extensive reading, research, online discussion, online quizzes or exams; instruction, collaborative group work, internships, laboratory work, practica, studio work, and preparation of papers, presentations, or other forms of assessment. This policy is in accordance with federal regulations and regional accrediting agencies.

Course Policies

Instructor and Student Communication: Questions for this course can be emailed to the instructor. Online, in-person, and phone conferences can be arranged. Response time is up to 2 days.

Cell phones, tablets, and laptops: Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

Disability Access: If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the Counseling Center by the end of week three of the class, in order for instructors to plan accordingly. If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu).

Failure to provide written documentation through the Counseling Center will prevent your instructor from making the necessary accommodations, instructors cannot provide accommodations unless they have been prescribed by the Counseling Center. Once you have received an official notice of accommodations from the Counseling Center, it is also very important to discuss these accommodations directly with your instructor so that they can better support your needs. If you have specific questions regarding your individualized accommodations, you may speak directly with your instructor and/or you may contact the Counseling Center.

Title IX Compliance: Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, you are encouraged to report this matter promptly. Faculty members promote safe and healthy environments, and any sexual, physical, and/or psychological misconduct or abuse will be reported to the Title IX Coordinator. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students Office, the Counseling Center, or the Office for Compliance and Personnel Services.

Attendance Policy: Students are expected to attend regularly all courses for which they are registered. Student should notify their instructors when illness or other extenuating circumstances prevent them from attending class, and they should make arrangements to obtain missed information and complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension, or by leaving a message with the instructor's division office. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade.

Students may be automatically withdrawn from the class or receive a failing grade if there are three or more absences in a 16-week term or two absences in a row in a 16-week term. With the condensed nature of the 8-week terms, missing class one day (e.g., 6-hours of class) would be equivalent to two absences in a row in a 16-week term.

Students with disabilities who have obtained accommodations from the Chaminade University of Honolulu ADA Coordinator may be considered for an exception when the accommodation does not materially alter the attainment of the learning outcomes. Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review options. Anyone who stops attending a course without an official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.

Professionalism with Class Topics and Discussions:

It is anticipated that in the course of students' graduate education in clinical psychology, they will have emotional reactions to class topics and discussions. Recognizing, understanding, and managing one's internal states is an integral part of one's professional responsibility. In the event that affective reactions become overwhelming, students are expected to manage their reactivity as they would as a practicing professional, subsequently discussing it with professors/supervisors and seeking informal and/or formal support. Similarly, it is the student's responsibility to notify the professor of potential issues, so they can address them (e.g., using the correct pronouns, pronouncing names/words correctly, awareness of triggering content).

Self-disclosure is considered voluntary and at the discretion of the student. Additionally, it is expected that peers be mindful and respectful of disclosures of others, keeping shared information confidential.

Academic Conduct Policy: Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook and HSPP Program Catalog, and operated within the guidelines set to honor both students' rights and campus values.

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook and Program Catalog, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook and HSPP Program Catalog for more details. A copy of the Student Handbook is available on the Chaminade website.

Unless expressed in writing via a university accommodation, all course information, content, and materials in any medium (including but not limited to notes, slides, recordings, electronic files, and verbal discussions and presentations) are prohibited from being intentionally or unintentionally shared (or allowed to be accessed), distributed, published, uploaded, or reproduced in any form, as they are reserved for the private use by the student registered for the course. Any audio and/or visual recordings (including pictures) are prohibited unless prior written permission from the instructor is granted, and permission is limited to individual and temporary use (i.e., recordings are not to be shared/reproduced, recordings must be deleted at the end of the term).

Unless otherwise instructed, all course submissions should follow the Publication Manual of the American Psychological Association, 7th Edition format. The faculty at the Hawai'i School of Professional Psychology at Chaminade University of Honolulu is dedicated to providing a learning environment that supports scholarly and ethical writing, free from academic dishonesty and plagiarism. This includes the proper and appropriate referencing of all sources. Your course assignments may be submitted to an online authenticity resource (e.g., Turnitin), which helps students and instructors detect potential cases of academic dishonesty. Similarly, the program needs to evaluate a student's competency in all academic and practice areas (including writing skills and critical thinking). Therefore, using artificial intelligence (AI) and automated writing tools is not permitted for program submissions and will be considered academic dishonesty.

Technology: A laptop with the following technology may be required in order to complete courses in the Clinical Psychology program: at least Windows 10 (for PCs), at least Mac OS X 10.5.8 (for Macs); a current antivirus program; the current Microsoft Office (PowerPoint and Word) and Adobe Acrobat; a standard web browser; and an internet or broadband connection with speed and connectivity to support internet searches and video conferencing. Most courses are paperless, but a printer/scanner may also be required.

Schedule

Week	Date	Topics	Readings Due (to be completed before attending next class)	Assignments Due
1	1/9	-Course Introduction -Foundational Concepts	Julien (2023) Ch. 1 Chen (2022)	
2	1/16	-Pharmacokinetics	Julien (2023) Ch. 2, Ch. 3 Alchakee (2022)	
3	1/23	- Pharmacodynamics - Adverse Events - Drug to Drug Interactions	Julien (2023) Ch. 15 Al-Haddad (2019) Perry (2021)	
4	1/30	- Special Populations: - Pregnancy/Postpartum - Peripartum Mood Disorders	Julien (2023) Ch. 16 Wilens (2022) Mattson (2021)	Quiz 1
5	2/6	-Special Populations: -Children/Adolescents	Julien (2023) Ch.17 Hachinski (2019)	
6	2/13	-Geriatric Populations -Neurodegenerative Diseases	Exam Review	Quiz 2
7	2/20	<u>Midterm Exam</u>	Julien (2023) Ch. 11 Jutla (2022) Stone (2021)	
8	2/27	- Antipsychotics - Schizophrenia Spectrum and - Other Psychotic Disorders	Julien (2023) Ch.14 Lippard (2020)	Case Presentations
9	3/5	-Mood stabilizers -Anticonvulsants -Bipolar Related Disorders	Julien(2023) Ch. 12 Beurel (2020)	Case Presentations

10	3/12	-Antidepressants -Clinical usage beyond depression	Julien (2023) Ch.13 Garakani (2020)	Quiz 3
11	3/19	- Anxiolytics - Hypnotics - Anxiety Disorders	Julien (2023) Ch. 4, Ch.9 Hinckley (2021)	
12	3/26	-Substance-Related Disorders -Cannabis	Julien (2023) Ch. 10 Judd (2023)	Case Presentations
12	4/2	-Opioid Analgesics -Chronic Pain Disorders	Julien (2023) Ch. 5, Ch. 6 Nutt (2021)	Quiz 4
13	4/9	-Nicotine -Alcohol Use Disorder	Julien (2023) Ch. 7 Jayanthi (2021)	Case Presentations
14	4/16	- Psychomotor Stimulants - Methamphetamines - Cocaine	Preparation for Final Exam	Quiz 5
15	4/23	Final Exam		