

PSY 432: PSYCHOPHARMACOLOGY, Fall 2020

Section 01 Group A: Mondays, 1:30-2:45 PM, 154 Lake Superior Hall

Section 01 Group B: Wednesdays, 1:30-2:45 PM, 154 Lake Superior Hall

Instructor: Glenn R. Valdez, Ph.D.

Office: 1313 AuSable Hall

Office hours: MWF 11:30 AM-12:30 PM

<https://gvsu-edu.zoom.us/j/97944905474?pwd=cHBqMzJZTVhnd0dJWTFES1VEVTVRdz09>

And by appointment

<https://glenn-valdez.youcanbook.me/>

Phone: (616) 331-3798

Email: valdezg@gvsu.edu

Course Description:

This course will examine the interactions between psychoactive drugs, the central nervous system, and behavior. Topics that will be covered include basic pharmacology, the nervous system, and the effects of various classes of psychoactive drugs on behavior. Prerequisites: PSY 101 and PSY 300 or SS 300 or equivalent. This course is subject to the GVSU policies listed at <http://www.gvsu.edu/coursepolicies/>.

Learning Objectives:

Upon successful completion of this course, students should be able to:

- Describe basic pharmacological concepts such as agonists, antagonists, dose-effect curves, efficacy, and potency
- Identify the structure and function of major parts of the nervous system
- Describe the process of action potentials
- Describe the process of neurotransmission
- Identify the behavioral function of major brain chemical systems and how various classes of drugs affect them
- Discuss basic research in psychopharmacology
- Relate principles of psychopharmacology to everyday behavior

Technology Needs:

This course is taught under the hybrid designation, meaning that more than 15% of the course is delivered online through Blackboard, and there will regular face-to-face class meetings. [Basic Technology Requirements](#) for Online and Hybrid courses and can be found on the GVSU IT Online Education website. Also, please complete the [Four Steps for Readiness for Online Learning](#).

High-speed internet access.

Laptop, tablet, and/or smartphone with a video camera and microphone. If you do not have a laptop, you may be able to apply for financial aid to help cover the cost of one. Please visit the GVSU [Special Circumstance & Financial Hardship Requests](#) site

for more information. Laptops may also be checked out from the Library for up to four hours with a photo ID.

Microsoft Office. As a GVSU student, you have access to Microsoft Office 365 for free. You will find the information on how to access this at <http://www.gvsu.edu/it/softwarehardware-discounts-31.htm>.

Zoom. I will be holding online office hours through Zoom. I will also use Zoom for live class sessions after Thanksgiving Break and in the event that face-to-face class sessions need to be moved online. All current term enrolled students are eligible to use the GVSU Zoom Business license. You can find more information at <https://www.gvsu.edu/it/gvsu-zoom-business-plan-247.htm>



Top Hat. We will be using the Top Hat (<https://tophat.com>) classroom response system in class. You will be able to submit answers to in-class questions using smartphones, tablets, laptops, or through text message. Top Hat will require a paid subscription (\$25 for the semester).



Flipgrid. We will be using Flipgrid (<https://info.flipgrid.com>) for online video discussions.



Communication:

I will be sending emails regularly (once or twice a week) through Blackboard. You are expected to check your GVSU email regularly for course announcements and updates. The best way to contact me is by email. Monday through Friday, I will check my email regularly between the hours of 9:00 AM-5:00 PM. I will generally respond to emails within 24 hours. If you do not receive a response after 24 hours, please feel free to follow up on the original email. I check my email occasionally during the weekend. However, I do reserve the right to limit my email access over the weekend so please do not expect a response until the following Monday. If your email is regarding an urgent matter (i.e. illness, family emergency, etc.), please include the word "URGENT" in the subject line, and I will do my best to respond to your email as soon as possible.

Face Coverings:

Face coverings that cover the mouth and nose are required to be worn in the classroom and during face-to-face meetings. Face masks with vents will only be permitted if the vent is completely covered and sealed off. If you have forgotten your face covering, you may get a disposable mask at a campus office. The evidence is clear that [face coverings are a crucial part of keeping coronavirus at bay](#) and [support the university's commitment to providing all members of its community with an inclusive living and learning environment with equitable opportunities for success](#). [GVSU's policy on face coverings](#) is posted on the Lakers Together web site. If you are not able to wear a face covering due to a medical condition, [contact Disability Support Services \(DSR\)](#) to discuss your individual situation.

Office Hours:

My regularly scheduled office hours will be held [online](#) on Mondays, Wednesdays, and Fridays, and can be accessed through the course website in Blackboard or at the link above. I am also available to meet online by appointment. Appointments can be scheduled through the "Book an Appointment" link on Blackboard, or at the link or QR code below.

<https://glenn-valdez.youcanbook.me/>



I am willing to meet face-to-face under special circumstances. Please email me if you would like to schedule a face-to-face meeting. Per GVSU policy, face coverings are required for these meetings.

Course Blackboard Site: <http://mybb.gvsu.edu/>

All relevant content can be accessed through the course website on Blackboard. When you first access the site, click on the "Start Here" link in the course menu for a video tour of the site. Links to course content, course tools, and other relevant information can be found in the course menu. A detailed weekly course schedule can be found at the end of the syllabus. New weekly content will be made available on **Saturdays at 12:01 AM**, and most assignments will be due on **Fridays by 11:59 PM**.

Texts:

Hancock, SD, McKim, WA. (2018) *Drugs and Behavior: An Introduction to Behavioral Pharmacology* (8th edition).

This is the text that I have traditionally used for this course. However, given the current situation, **this book is completely optional**. Although it may be helpful in reviewing the material or for additional reading, **you are not obligated to buy the book, especially if it poses a financial burden**. You can also rent or purchase an electronic version of the text online.

RedShelf: <https://redshelf.com/book/625155/drugs-and-behavior-625155-9780134492438-stephanie-hancock-william-mckim>

Neuroscience Online <https://nba.uth.tmc.edu/neuroscience/>

This is an open-access (free) textbook for the study of neuroscience is provided by current and former faculty of the Department of Neurobiology and Anatomy at The University of Texas Health Science Center at Houston, McGovern Medical School.

Research Articles (available on Blackboard):

Cropsey KL, Schiavon S, Hendricks PS, Froelich M, Lentowicz I, Fargason R. Mixed-amphetamine salts expectancies among college students: Is stimulant induced cognitive enhancement a placebo effect?. *Drug Alcohol Depend.* 2017;178:302-309.
doi:10.1016/j.drugalcdep.2017.05.024

Greene KM. Perceptions of driving after marijuana use compared to alcohol use among rural American young adults. *Drug Alcohol Rev.* 2018;37(5):637-644.
doi:10.1111/dar.12686

Learning Modules:

The course will be divided into learning modules based on each course topic. Video lectures and the accompanying PowerPoint slides with additional notes can be found in each module. You will be responsible for all material covered in these videos and on the PowerPoint slides (including any additional notes in the slides). Links to quizzes, readings, online discussions, and other relevant materials will also be found in these modules.

Face-To-Face Class Sessions:

Face-to-face class sessions will focus mainly on discussion and review of content covered in the video lectures, quizzes, assignments, etc. Attendance will be taken in class. **However, you WILL NOT BE PENALIZED for absences.** Due to the restrictions on room capacity, you may only attend face-to-face class sessions on the scheduled day for your assigned group.

If you are unable to attend class on campus, you may join a livestream over Zoom where you will be able to interact with me and the rest of the class. The link to these Zoom sessions can be found on Blackboard. You will also be able to respond remotely to any Top Hat questions and discussions through the website or app. All classes will also be recorded and posted to Blackboard.

If you are unable to attend class in person or online due to illness, quarantine, child care issues, etc., please contact me as soon as possible for alternate arrangements to make up any in class participation points. **You DO NOT need to provide documentation for absences.**

Quizzes:

Each learning module contains an online quiz based on the topics covered in the video lectures, face-to-face class sessions, and readings. **The goal of these quizzes is to evaluate your basic understanding of the material.** These quizzes will consist of 10 multiple choice questions worth one point each, for a total of 10 points per quiz. **You will only have one attempt to submit the quiz.** Once you submit the quiz, you will no longer be able to revise your answers. You are free to use the video modules, notes, and readings to complete the quizzes. If a technical error occurs and your quiz is not submitted properly, please email me as soon as possible. **All quizzes will be due on a Friday by 11:59 PM** (see specific dates in the weekly course schedule).

Your score will be available upon submission of the quiz. Correct answers will be available for you to review after the due date for the quiz. See the video tutorial on Blackboard for instructions on how to review your quizzes.

Research Paper Assignments:

There will be two research paper assignments based on the required research articles and relevant course content. **The goal of this assignment is to assess your ability to understand current research in the field of psychopharmacology, and to integrate the course material when examining the real-world implications of this research.** Each assignment is worth 50 points. See the end of the syllabus for more details.

The general topics of these papers are:

- Non-medical Use of Adderall
- Marijuana Use and Driving

Assignment sheets will be made available in the Research Paper Assignment folder in Blackboard as Word Documents. Assignments must be completed and uploaded to the same folder on Blackboard. **I will only accept assignments that are uploaded as Word Documents or PDF files. If you are using another program to write the paper (Pages, Google Docs, etc.), please export the file to a Word Document or PDF file (instructions for how to do so are posted in Blackboard).** Feedback will be provided within the paper and gradebook on using comments through Blackboard's grading tool. **All assignments will be due on a Friday by 11:59 PM** (see specific dates in the weekly course schedule). **After the due date, 5 points will be deducted from the overall grade per calendar day that the assignment is turned in late.**

Discussion Boards:

Each week, you will be required to create a discussion thread in a weekly discussion forum regarding the material for the week. **The purpose of these discussion posts is to provide a weekly check-in to see how you are doing with the course, and to help guide our face-to-face classes so that we can make best use of our time together.** Weekly discussion posts will be worth 5 points. **All discussion board posts will be due on a Friday by 11:59 PM.**



Your post should address at least one of the following questions:

- What concept(s) did you struggle with this week?
- What would you like me to expand upon/clarify/review in our next face-to-face class session?
- What questions do you have regarding the week's materials?

In addition to these graded posts, discussion boards will be available for you to ask questions regarding the content of each topic covered in the class and general questions about the course. If you have a general question about the material, please post them to the discussion board rather than emailing me directly. This will allow others in the class to benefit from your questions. You are also free to answer any questions posed by other students.

Flipgrid Discussions:

There will be four graded discussions during the semester, worth 10 points each, using Flipgrid. Flipgrid is a video discussion platform that can be accessed through their website (<https://info.flipgrid.com>), directly through the link in Blackboard, or by downloading the free app. There will be separate discussion groups for Group A and Group B. If you are accessing your group through the app, make sure you enter the correct join code or scan the correct QR code.

Group	Join Code	QR Code
Group A	valdez0948	
Group B	valdez3755	

The topics for these discussions are:

- Introductions
- What is a Drug?
- Perception of E-cigarettes
- Psychiatric Medications

The goal of this assignment is to allow us to have more interactive discussions regarding contemporary topics in the field of behavioral neuroscience, and to help create more of a sense of community within the class. For each topic, you will be required to record a post regarding the discussion topic that will be worth 5 points. These posts **will be due on a Friday by 11:59 PM** (see specific dates in the weekly course schedule). After these initial posts are due, you may earn up to 10 points of extra credit by leaving a **substantive** reply to other students' original posts. You will receive 5 extra credit points for replying to at least one post. You will receive 10 extra credit points if you reply to three or more posts. **Replies will be due by the next Friday at 11:59 PM. Late replies for extra credit will not be accepted.**

In Class Participation:

50 points of your semester grade will be based on in-class participation. We will be using the Top Hat (www.tophat.com) classroom response system in class. You will be able to submit answers to in-class questions using a smartphone, tablet, laptop, or through text message. You can visit the [Student: Quick Start Guide](#), which outlines how you will register for a Top Hat account, as well as provides a brief overview to get you up and running on the system. After you register, you will be asked to find the course with its join code. Please be sure to register for the correct section with the correct join code.

Group	Join Code
Group A	788544
Group B	926027

Unless I specifically ask that responses remain anonymous, I will be tracking responses to the in class questions. Your grade will be based on the percentage of questions answered throughout the entire semester as outlined below. If you are unable to attend class due to illness, quarantine, child care issues, etc., please contact me as soon as possible for alternate arrangements to make up any in class participation points.

Percentage of questions answered	Participation points
75-100%	50
50-74.9%	40
25-49.9%	25
0-24.9%	0

Exams:

There will be four exams that will be worth 100 points each. The exam format will be short essays and will be based on **what is covered in the video lectures, PowerPoint slides, face-to-face class sessions, and readings.** **The goal of the exams is to gauge your ability to integrate and explain concepts in a manner that goes beyond a simple repetition of facts and definitions.** The number of questions and the point total for each question will vary between exams (likely between 5-8 questions).

You will be required to answer all questions on the exam. Exams will be made available in an Exam folder on Blackboard as Word Documents on the dates listed below. They must be completed and uploaded to the same folder by the due dates listed below. **I will only accept exams that are uploaded as Word Documents or PDF files. If you are using another program to complete the exam (Pages, Google Docs, etc.), please export the file to a Word Document or PDF file (instructions for how to do so are posted in Blackboard).** You will have two opportunities to submit the exam in case you have a technical issue. If you are still having technical issues when after your second attempted upload, please contact me so that I can assist you in turning in the exam. **Only the most recent submission will be graded.** Feedback will be provided within the exam and gradebook on using comments through Blackboard's grading tool. All exams are open book/open note. You are free to use the video modules, notes, and readings to complete the exams. The only time limitation for the exam is that it must be submitted by the due date. Due to this format, I will have higher expectations regarding accuracy and clarity of your answers than I would if these were in class, closed book exams. Minor grammatical errors will not be penalized. However, grammatical errors that make your answers difficult to understand and/or typos/spelling errors that change the meaning of the answer will result in point deductions. Obvious typos and errors will also be penalized. **See the weekly schedule for specific availability dates and due dates.**

Course Grades:

Grades will be based on your performance on examinations, quizzes, short papers, discussion assignments, and in-class participation. **EXTRA CREDIT OPPORTUNITIES BEYOND REPLIES TO THE FLIPGRID POSTS WILL NOT BE LIKELY.** Grades are calculated based on the following point values.

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Exam 4	100 points
Quizzes	120 points
Short Papers	100 points
Discussion Board Posts	65 points
Flipgrid Discussions	20 points
In-class Participation	50 points
Total Available Points	755 points
Possible Extra Credit Points	40 points

Letter grades will be assigned according to the following scale. Final grades are calculated as the percentage of points based on the of the total points available and are rounded to the nearest whole number.

A	93-100%
A-	90-92%
B+	87-89%
B	83-86%
B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	60-66%
F	≤ 59

Please consider this general description of what each grade means.

F/D/D+: Despite your best efforts, you are struggling with the material and need help to understand why you are having difficulty. **Please set up an appointment so that we can determine the best course of action for you if you fall in this range.**

C-/C/C+: You did all the necessary work. You learned all the basic material and **know the correct answers.**

B-/B/B+: You did all the necessary work. You learned all the basic material, and you know the correct answers. Plus you really get the material. You **understand the correct answers** and could teach it to a friend.

A-/A: You did all the necessary work. You learned all the basic material, and you know the correct answers. You really get the material. You understand the correct answers and could teach it to a friend. Plus you can use it flexibly and adaptively. You **understand WHY the answers are what they are, and how this material can be applied to different situations.**

Academic Integrity:

The principles of truth and honesty are recognized as fundamental to a community of teachers and scholars. Grand Valley State University expects that both faculty and students will honor these principles, and in so doing, protect the validity of university grades. All academic work will be done by the student to whom it is assigned, without unauthorized aid of any kind. Instructors, for their part, will exercise care in the planning and supervision of academic work so that honest effort will be positively encouraged.

Cheating and plagiarism are the two most obvious violations of academic honesty. In brief, plagiarism is borrowing ideas, words, organization, etc., from another source or person and claiming them as original. Such activity may result in failure of a specific assignment, an entire course, or, if flagrant, dismissal from the University. For further information, see the "Student Code."

Accommodation for disability:

If there is any student in this class who has special needs because of a learning, physical or other disability, please contact the Disabilities Support Resources (DSR) Program in the Advising Resources and Special Programs Unit at 331-3588.

Weekly Course Schedule (Subject to change)

Week	Readings and Online Video Lectures	Assignments
Week 1 8/31-9/4	Learning Module - Neurons and Neurotransmission Required Videos - Neurons and Neurotransmission Recommended Readings - Hancock & McKim: Chapter 4 - Neuroscience Online: Section 1, Chapter 1, 1.1-1.4 - Neuroscience Online: Section 1, Ch 6, 6.1, 6.2, 6.5, 6.6	Friday, by 11:59 PM - Flipgrid Discussion: Introductions - Weekly Discussion Board Post: Neurons and Neurotransmission Optional - Additional discussion posts *No online quiz this week
Week 2 9/5-9/11 Labor Day Recess 9/6-9/7	No face-to-face class meeting on Monday. I will live stream and record Wednesday's class for Group A. Learning Modules - Neurons and Neurotransmission - Neurotransmitter Systems and Neuroanatomy Required Videos - Neurotransmitter Systems - Neuroanatomy Recommended Readings - Hancock & McKim: Chapter 4 - Neuroscience Online: Section 2, Chapter 1	Friday, by 11:59 PM - Neurons and Neurotransmission Quiz - Flipgrid Discussion: Replies to Introductions - Weekly Discussion Board Post: Neurotransmitter Systems and Neuroanatomy Optional - Additional discussion posts
Week 3 9/12-9/18	Learning Modules - Neurotransmitter Systems and Neuroanatomy - Basic Pharmacology Required Videos - Basic Pharmacology Part 1 Recommended Readings - Hancock & McKim: Chapters, 1, 2, 3	Friday, by 11:59 PM - Neurotransmitter Systems and Neuroanatomy Quiz - Flipgrid Discussion: What is a Drug? - Weekly Discussion Board Post: Basic Pharmacology Optional - Additional discussion posts
Week 4 9/19-9/25	Learning Module - Basic Pharmacology Required Videos - Basic Pharmacology Part 2 Recommended Readings - Hancock & McKim: Chapters 1, 2, 3	Friday, by 11:59 PM - Flipgrid Discussion: Replies to What is a Drug? - Weekly Discussion Board Post: Basic Pharmacology Optional - Additional discussion posts *No online quiz this week

Week	Readings and Online Video Lectures	Assignments
Week 5 9/26-10/2	Exam 1 <ul style="list-style-type: none"> - Neurons and Neurotransmission - Neurotransmitter Systems and Neuroanatomy - Basic Pharmacology Learning Modules <ul style="list-style-type: none"> - Basic Pharmacology - Drug Addiction Required Videos <ul style="list-style-type: none"> - Drug Addiction Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 5 	Thursday at 12:01 AM <ul style="list-style-type: none"> - Exam 1 Available Friday, by 11:59 PM <ul style="list-style-type: none"> - Exam 1 Due - Basic Pharmacology Quiz - Weekly Discussion Board Post: Drug Addiction Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 6 10/3-10/9	Learning Modules <ul style="list-style-type: none"> - Drug Addiction - Alcohol Required Videos <ul style="list-style-type: none"> - Alcohol Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 6 	Friday, by 11:59 PM <ul style="list-style-type: none"> - Drug Addiction Quiz - Weekly Discussion Board Post: Alcohol Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 7 10/10-10/16	Learning Modules <ul style="list-style-type: none"> - Alcohol - Sedative Hypnotics Required Videos <ul style="list-style-type: none"> - Sedative Hypnotics Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 7 	Friday, by 11:59 PM <ul style="list-style-type: none"> - Alcohol Quiz - Weekly Discussion Board Post: Sedative Hypnotics Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 8 10/17-10/23	Exam 2 <ul style="list-style-type: none"> - Drug Addiction - Alcohol - Sedative Hypnotics Learning Modules <ul style="list-style-type: none"> - Sedative Hypnotics - Nicotine Required Videos <ul style="list-style-type: none"> - Nicotine Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 8 	Thursday at 12:01 AM <ul style="list-style-type: none"> - Exam 2 Available Friday, by 11:59 PM <ul style="list-style-type: none"> - Exam 2 Due - Sedative Hypnotics Quiz - Flipgrid Discussion: Perception of E-cigarettes - Weekly Discussion Board Post: Nicotine Optional <ul style="list-style-type: none"> - Additional discussion posts

Week	Readings and Online Video Lectures	Assignments
Week 9 10/24-10/30	Learning Modules <ul style="list-style-type: none"> - Nicotine - Opioids Required Videos <ul style="list-style-type: none"> - Opioids Required Reading <ul style="list-style-type: none"> - Vogel et al, 2020 Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 11 	Friday, by 11:59 PM <ul style="list-style-type: none"> - Nicotine Quiz - Flipgrid Discussion: Replies to Perception of E-cigarettes - Weekly Discussion Board Post: Opioids Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 10 10/31-11/6	Learning Modules <ul style="list-style-type: none"> - Opioids - Psychostimulants Required Videos <ul style="list-style-type: none"> - Psychostimulants Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 11 	Friday, by 11:59 PM <ul style="list-style-type: none"> - Opioids Quiz - Weekly Discussion Board Post: Psychostimulants Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 11 11/7-11/13	Learning Modules <ul style="list-style-type: none"> - Psychostimulants - Antipsychotics Required Videos <ul style="list-style-type: none"> - Antipsychotics Required Reading <ul style="list-style-type: none"> - Cropsey et al, 2017 Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 12 	Friday, by 11:59 PM <ul style="list-style-type: none"> - Psychostimulants Quiz - Cropsey et al. Assignment - Flipgrid Discussion: Psychiatric Medications - Weekly Discussion Board Post: Antipsychotics Optional <ul style="list-style-type: none"> - Additional discussion posts
Week 12 11/14-11/20	Exam 3 <ul style="list-style-type: none"> - Nicotine - Opioids - Psychostimulants - Antipsychotics Learning Modules <ul style="list-style-type: none"> - Antipsychotics - Antidepressants and Psychedelics Required Videos <ul style="list-style-type: none"> - Antidepressants - Psychedelics Recommended Readings <ul style="list-style-type: none"> - Hancock & McKim: Chapter 13 - Hancock & McKim: Chapter 15 	Thursday at 12:01 AM <ul style="list-style-type: none"> - Exam 3 Available Friday, by 11:59 PM <ul style="list-style-type: none"> - Exam 3 Due - Antipsychotics Quiz - Flipgrid Discussion: Replies to Psychiatric Medications Deadline extended to Sunday, 11/29 by 11:59 PM <ul style="list-style-type: none"> - Weekly Discussion Board Post: Antidepressants and Psychedelics Optional <ul style="list-style-type: none"> - Additional discussion posts

Week	Readings and Online Video Lectures	Assignments
<p>Week 13 11/21-11/27</p> <p>Thanksgiving Break 11/25-11-27</p>	<p>No face-to-face class sessions this week.</p> <p>Continue with the Learning Module on Antidepressants and Psychedelics from Week 12 if needed.</p>	<p>Week 12 Discussion Post Deadline Extended to Sunday, 11/29 by 11:59 PM</p> <p>Optional Additional discussion posts</p> <p>*No online quiz this week</p>
<p>Week 14 11/28-12/4</p>	<p>Live class session will take place online using Zoom during regularly scheduled class times.</p> <p>Learning Modules</p> <ul style="list-style-type: none"> - Antidepressants and Psychedelics - Cannabinoids <p>Required Videos</p> <ul style="list-style-type: none"> - Cannabinoids <p>Recommended Readings</p> <ul style="list-style-type: none"> - Hancock & McKim: Chapter 14 	<p>Friday, by 11:59 PM</p> <ul style="list-style-type: none"> - Antidepressants and Psychedelics Quiz - Weekly Discussion Board Post: Cannabinoids <p>Optional Additional discussion posts</p>
<p>Week 15 12/5-12/11</p>	<p>Live class session will take place online using Zoom during regularly scheduled class times.</p> <p>Learning Modules</p> <ul style="list-style-type: none"> - Cannabinoids <p>Required Videos</p> <ul style="list-style-type: none"> - Cannabinoids <p>Required Reading</p> <ul style="list-style-type: none"> - Greene, 2018 <p>Recommended Readings</p> <ul style="list-style-type: none"> - Hancock & McKim: Chapter 14 	<p>Friday, by 11:59 PM</p> <ul style="list-style-type: none"> - Cannabinoids Quiz - Greene Assignment <p>Optional Additional discussion posts</p> <p>*No weekly discussion board post this week</p>
<p>Finals Week</p>	<p>Exam 4</p> <ul style="list-style-type: none"> - Antidepressants - Psychedelics - Cannabinoids 	<p>Monday, 12/14 at 12:00 PM</p> <ul style="list-style-type: none"> - Exam 4 Available <p>Tuesday, 12/15 by 11:59 PM</p> <ul style="list-style-type: none"> - Exam 4 Due

Summary of Key Dates (Subject to change)

Fridays throughout the semester by 11:59 PM	Learning Module Online Quizzes Weekly Discussion Board Posts (*Exception: Discussion board post for Antidepressants and Psychedelics will be due on Sunday, 11/29))
Friday, 9/4 by 11:59 PM	Flipgrid Discussion: Introductions
9/6-9/7	Labor Day Recess, No Monday Class on 9/6
Friday, 9/11 by 11:59 PM	Flipgrid Discussion: Replies to Introductions
Friday, 9/18 by 11:59 PM	Flipgrid Discussion: What is a Drug?
Friday, 9/11 by 11:59 PM	Flipgrid Discussion: Replies to What is a Drug?
Thursday, 10/1 at 12:01 AM	Exam 1 Available
Friday, 10/2 by 11:59 PM	Exam 1 Due
Thursday, 10/22 at 12:01 AM	Exam 2 Available
Friday, 10/23 by 11:59 PM	Exam 2 Due Flipgrid Discussion: Perception of E-cigarettes
Friday, 10/30 by 11:59 PM	Flipgrid Discussion: Replies to Perception of E-cigarettes
Friday, 11/13 by 11:59 PM	Cropsey et al. Assignment Flipgrid Discussion: Psychiatric Medications
Thursday, 11/19 at 12:01 AM	Exam 3 Available
Friday, 11/20 by 11:59 PM	Exam 3 Due Flipgrid Discussion: Replies to Psychiatric Medications
Monday, 11/23	No face-to-face classes
11/25-11/29	Thanksgiving Break, No Wednesday Class on 11/25
Monday, 11/30	All instruction moved online for the remainder of the semester
Friday, 12/11 by 11:59 PM	Green Assignment
Monday, 12/14 at 12:00 PM	Exam 4 Available
Tuesday, 12/15 by 11:59 PM	Exam 4 Due

Research Paper Assignment

There will be two research paper assignments based on the research articles below and relevant course content. **The goal of this assignment is to assess your understanding of current research in the field of psychopharmacology, and your ability to integrate the course material to examine the real-world implications of this research.**

Assignment sheets will be made available in the Research Paper Assignment folder in Blackboard as Word Documents. Assignments must be completed and uploaded to the same folder on Blackboard. **I will only accept assignments that are uploaded as Word Documents or PDF files. If you are using another program to write the paper (Pages, Google Docs, etc.), please export the file to a Word Document or PDF file (instructions for how to do so are posted in Blackboard).** Feedback will be provided within the paper and gradebook on using comments through Blackboard's grading tool. **All assignments will be due on the specific dates below by 11:59 PM.**

Research Paper 1 Topic: Non-medical Use of Adderall **Due Friday, 11/13**

Cropsey KL, Schiavon S, Hendricks PS, Froelich M, Lentowicz I, Fargason R. Mixed-amphetamine salts expectancies among college students: Is stimulant induced cognitive enhancement a placebo effect?. *Drug Alcohol Depend.* 2017;178:302-309. doi:10.1016/j.drugalcdep.2017.05.024

Research Paper 2 Topic: Marijuana Use and Driving **Due Friday, 12/11**

Greene KM. Perceptions of driving after marijuana use compared to alcohol use among rural American young adults. *Drug Alcohol Rev.* 2018;37(5):637-644. doi:10.1111/dar.12686

The assignment sheets will have question prompts to address. Your answers should be double-spaced, with one-inch margins and standard 12-point font. **The maximum length of the entire assignment is 4 pages, including the question prompts** (do not delete the questions when you turn in the assignment).

The assignment will be divided into two parts. Part 1 of the assignment will ask you to address the following questions summarizing the assigned research article. **This part of the assignment should be no longer than 2 pages and will be worth 20 points towards the assignment grade.**

- Rationale (2 points): Why are the authors performing the experiment? The rationale should be a global statement about why this type of research is beneficial and important. Your answer should be no longer than 1-2 sentences.

- Objective (3 points): What is the main purpose of the study? What exactly are the authors trying to do or what is their main hypothesis? Your answer should be no longer than 1-2 sentences.
- Methods (7 points): Summarize the key methods used in the study. Be sure to describe the main groups and variables. Try to weed out all of the technical details from the most important information needed to understand the study. The important information should be measures that relate back to the Rationale and Objective of the study.
- Results (5 points): What are the key results? The results should provide a description of the observed relationship between the main variable. They should also relate back to the main objective of the study.
- Conclusion (3 points): What do the authors' results suggest? What are the main conclusions that can be drawn from the authors' findings? The conclusion should relate back to the Rationale behind this type of research?

Part 2 of the assignment will ask you to write an essay discussing how this specific study fits within the general topic and the larger implications of this line of research. **This part of the assignment should be no longer than 2 pages and will be worth 25 points towards the assignment grade.**

The question prompt for each assignment will be specific to the topic, but in general, your essay should address the following.

- What common beliefs regarding the main drug examined in this topic does the article highlight? How do these common beliefs compare to research findings of the study and the research covered in class?
- How do these drugs work biologically/affect biological systems? What are some important short-term and long-term health and/or safety issues due to these biological actions? Does following common beliefs about these drugs put someone at a higher or lower risk for these issues?

Part 2 will be graded on following criteria.

- Content (15 points): Your essay should accurately describe the assigned research article, any other relevant research, and the biological actions of the drug. Research should form the overall basis of essay. Speculative arguments (i.e. statements that are not supported by any type of research finding) should be avoided.
- Presentation (10 points): Your essay should have a clear focus. It should be organized in a logical and easy to follow manner. The information presented should be relevant to the overall topic and specific studies are cited.

The remaining 5 points of the assignment will be based on the following.

- Formatting: The assignment was uploaded to Blackboard as a Microsoft Word Document or PDF file. Part 1 of the assignment should be no longer than 1 page and part 2 should be no longer than 2 pages, including question prompts. Your answers should be double-spaced, with one-inch margins and standard 12-point font.
- Spelling and Grammar: Your assignment paper should be free of typos, spelling errors, and grammatical errors.

Grading Breakdown

Part 1	20 points
Part 2	25 points
Formatting Spelling Grammar	5 points
Total	50 points

Late Submissions

After the due date, 5 points will be deducted from the overall grade per calendar day that the assignment is turned in late.