

**PSY 330-01  
FOUNDATIONS OF BEHAVIORAL NEUROSCIENCE  
SPRING 2024**

**Instructor:** Glenn R. Valdez, Ph.D.

**Office:** 1313 AuSable Hall

**Office hours:** **Available by appointment. Schedule through Navigate below**

<https://gvsu.campus.eab.com/pal/SJc6c1-HHk>

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**Course Description:**

This course provides an introduction to Behavioral Neuroscience, the scientific study of the interaction between biological processes and behavior. Topics covered include the basic structure of the nervous system, research methods in behavioral neuroscience, psychopharmacology, and neural mechanisms involved in sensory and perceptual processes, and psychiatric disorders. Prerequisites: PSY 101 - Introductory Psychology. This course is subject to the policies listed at <http://www.gvsu.edu/coursepolicies>.

**Learning Objectives:**

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

- Identify the structure and function of the 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
- Discuss basic research in behavioral neuroscience
- Relate biological processes and concepts to everyday behavior

**Course Blackboard Site:** [lms.gvsu.edu](https://lms.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 **Mondays at 12:01 AM**.

**Technology Needs:**

[Basic Technology Requirements](#) for Online and Hybrid courses 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 and appointments through Zoom. 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>



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



### **Communication:**

I will be sending emails regularly (at least 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 unless it is something urgent. 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.

### **Office Hours:**

Office hour meetings are available by appointment, and may be scheduled through my Navigate link <https://gvsu.campus.eab.com/pal/SJc6c1-HHk>. All meetings will be held on Zoom. Once you schedule an appointment, you will receive the Zoom link for the meeting. I plan to be generally available for meetings from 10:00 AM to 3:00 PM, Monday-Thursday, but availability may vary from week to week. I am happy to find a time to meet outside of those times in needed. **If there are no available times that fit**

**your schedule, please do not hesitate to email me so that we can figure out another time to meet.**

**Texts:**

Carlson, N.R., Birkett, M. (2020) Foundations of Behavioral Neuroscience (10<sup>th</sup> edition).

This text is available as an eBook in the Course Blackboard site as part of the GVSU Save program. You can also rent or purchase an electronic version of the text online via the websites below.

Pearson (do not purchase the Revel Access code):

<https://www.pearson.com/store/p/foundations-of-behavioral-neuroscience/P100002609225>

RedShelf: <https://redshelf.com/book/1179636/foundations-of-behavioral-neuroscience-subscription-1179636-9780134641379-neil-r-carlson-melissa-birkett>

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. The Neuroscience Online readings are not required but may be helpful in reviewing the material or for additional reading

**Research Articles (available on Blackboard):**

LeVay S. A difference in hypothalamic structure between heterosexual and homosexual men. *Science*. 1991;253(5023):1034-1037. doi:10.1126/science.1887219

Kraehenmann R, Preller KH, Scheidegger M, et al. Psilocybin-Induced Decrease in Amygdala Reactivity Correlates with Enhanced Positive Mood in Healthy Volunteers. *Biol Psychiatry*. 2015;78(8):572-581. doi:10.1016/j.biopsych.2014.04.010

**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.

## Exams:

There will be three 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 (6-7 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 in the schedule. The only time limit to the exams is that they must be completed and uploaded to the same folder by the due dates listed. **After the due date, 20 points will be deducted from the overall grade per calendar day that the exam is turned in late.**

**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.** You will have one opportunity to submit the exam. If you have a technical issue when you submit the exam, please contact me right away 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 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.**

## Quizzes:

Each learning module contains an online quiz based on the topics covered in the video lectures 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 Sunday by 11:59 PM.**

## Research Article Assignments:

There will be two assignments based specifically on the required research articles listed above. **The goal of these articles is to expose you to some of the classic and current research in the field of behavioral neuroscience, and assess your ability to critically examine them.** These assignments will consist of short answer questions. These assignments will be worth 25 points each.

Assignment sheets will be made available in the Article Assignment folder in Blackboard as Word Documents. They must be completed and uploaded to the same folder by the due dates listed below. **I will only accept assignments that are uploaded as Word Documents or PDF files. If you are using another program to complete the assignment (Pages, Google Docs, etc.), please export the file to a Word Document or PDF file.** You will have two opportunities to submit the assignment 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 assignment and gradebook using comments through Blackboard's grading tool.

Your answers to the questions will be worth a total of 20 points. The number of questions and points per question will vary for each assignment. The remaining 5 points will be based on the following criteria:

- Formatting: The assignment was uploaded to Blackboard as a Microsoft Word Document or PDF file. The assignment was uploaded to Blackboard as a Microsoft Word Document or PDF file. Questions and instructions were not deleted and answers are single-spaced in standard 12-point font. The assignment does not exceed the 3-page maximum limit.
- Spelling and Grammar: Your assignment should be free of typos, spelling errors, and grammatical errors.

**All assignments will be due on a Sunday 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 handed in late.**

## Flip Discussions:

There will be four graded discussions during the semester, worth 10 points each, using Flip. Flip is a video discussion platform and you can join the course group using the following link: <https://flip.com/95807ce6> or by downloading the free app. If you are accessing Flip through the app, you can access the course using the following join code: **95807ce6**. You may also scan the QR code to the right. If you have not



previously registered for Flip, make sure you use your GVSU email ([username@mail.gvsu.edu](mailto:username@mail.gvsu.edu)) to sign up.

The topics for these discussions are:

- Introductions
- Non-Medical Use of Adderall
- Criminal Behavior and Biology
- Stigma and Psychiatric Disorders

**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 10 points. **These posts are graded assignments, not a Class Participation Activity (see below for more info).** These posts **will be due on a Wednesday by 11:59 PM** (see specific dates in the weekly course schedule). **After the due date, 2 points will be deducted from the overall grade per calendar day for late submissions.**

While you are not required to reply to other students' posts, you may earn 5 points towards the Class Participation portion of your grade (see below for more details) by leaving a **substantive video reply** to other students' posts. You may earn a maximum of 15 Class Participation points (three replies) for each discussion topic. Although you are free to post more than three replies, you will not receive additional Class Participation points for the additional replies. **Replies will be due by the Sunday at 11:59 PM after the initial posts are due.**

### **Discussion Boards:**

I will set up a discussion forum regarding the material covered in each Learning Module. While you are not required to post to the discussion board, you may earn points towards the Class Participation portion of your grade (see below for more details) by posting **substantive questions** or leaving a **substantive reply** to other students' questions. In general, posts may address the following questions:

- What did you struggle with this in this learning module?
- What questions do you have regarding the materials covered in the learning module?

If you have a general question about the material, I would encourage you to post them to the discussion board rather than emailing me directly. This will allow others in the class to benefit from your question, and also allow you to earn participation points. Posting a substantive question regarding the material will be worth 2 points towards your Class Participation Grade. Posting a substantive reply to another student's question will be worth 5 points towards your Class Participation Grade.

## Class Participation:

50 points of your grade will be based on the completion of Class Participation activities. You may earn points towards your Class Participation Grade by replying to your classmates' Flip videos or participating in the Learning Module Discussion Boards (see above for more details). You may also earn Class Participation points by scheduling an appointment or meeting with me during my regularly scheduled office hours to discuss the course, neuroscience in general, academic or career advice, or anything else you may want to chat about. Below is a summary of ways to earn points towards your class participation grade. You do not need to complete each activity, only enough activities to earn 50 points.

Activity	Points Value
Replying to Flip posts	5 points
Posting questions to the discussion boards	2 points
Replying to questions posted to the discussion boards	5 points
Meeting with me during office hours or a scheduled appointment	5 points

Some examples of how to earn full Class Participation Points

- Reply to 3 Flip Introduction posts (15 points), reply to 3 Flip posts on Non-Medical Use of Adderall (15 points), answer two Discussion Board questions (10 points), meet with me twice (10 points)
- Answer 10 Discussion Board questions (50 points)
- Ask 5 Discussion Board questions (10 points), reply to 3 Flip Introduction posts (15 points), reply to 2 Flip posts on Criminal Behavior and Biology (10 points), answer two Discussion Board questions (10 points), meet with me once (5 points)

## Course Grades:

Grades will be based on your performance on examinations, quizzes, research article assignments, Flip discussion assignments, and class participation. **EXTRA CREDIT OPPORTUNITIES 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
Quizzes	110 points
Research Article Assignments	50 points
Flip Discussions	40 points
Class Participation	50 points
<b>Total Available Points</b>	<b>550 points</b>

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. The university expects that both faculty members and students will honor these principles and in so doing protect the validity of university grades. This means that **all academic work will be done by the student to whom it is assigned without unauthorized aid of any kind.** Compliance shall include compliance with the following specific rules:



1. No student shall knowingly, without authorization, procure, provide, or accept any materials which contain questions or answers to any examination or assignment.
2. No student shall, without authorization, complete, in part or in total, any examination or assignment for another person.
3. No student shall, without authorization, allow any examination or assignment to be completed, in part or in total, by another person.
4. No student shall knowingly plagiarize or copy the work of another person and submit it as their own.
5. No student shall submit work that has been previously graded or is being submitted concurrently to more than one course without authorization from the instructor(s) of the class(es) to which the student wishes to submit it.

**Accommodation for disability:**

If you are in need of accommodations due to a learning, physical, or other disability you must present a memo to me from Disability Support Resources (DSR), indicating the existence of a disability and the suggested reasonable accommodations. If you have not already done so, please contact the Disability Support Resources office (215 CON) by calling 331-2490 or email to [dsrgvsu@gvsu.edu](mailto:dsrgvsu@gvsu.edu). Please note that I cannot provide accommodations based upon disability until I have received a copy of the DSR issued memo. All discussions will remain confidential.

## Weekly Course Schedule (Subject to change)

Week	Readings and Online Video Lectures	Assignments
<b>Week 1</b> 5/6-5/12	<p><b>Learning Module: Neurons and Neurotransmission</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Neurons and Neurotransmission</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 1, Chapter 1, 1.1-1.4</li> <li>- Neuroscience Online: Section 1, Ch 6, 6.1, 6.2, 6.5, 6.6</li> <li>- Carlson &amp; Birkett: Chapter 2</li> </ul> <p><b>Learning Module: Neuroanatomy</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Neuroanatomy</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 2, Chapter 1</li> <li>- Carlson &amp; Birkett: Chapter 3</li> </ul>	<p><b>Due <u>Wednesday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Flip: Introductions</li> </ul> <p><b>Due <u>Sunday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Neurons and Neurotransmission Quiz</li> <li>- Neuroanatomy Quiz</li> </ul> <p><u>Participation Credit</u></p> <ul style="list-style-type: none"> <li>- Flip: Replies to Introductions</li> </ul>
<b>Week 2</b> 5/13-5/19	<p><b>Learning Module: Psychopharmacology</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Psychopharmacology</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Carlson &amp; Birkett: Chapter 4</li> </ul> <p><b>Learning Module: Neurotransmitter Systems</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Neurotransmitter Systems</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 1, Chapter 11, 11.1, 11.4, 11.14, 11.16</li> <li>- Neuroscience Online: Section 1, Chapter 12, 12.1, 12.5, 12.11 (only the subsections on DA, NE, and 5-HT), 12.27-12.33</li> <li>- Neuroscience Online: Section 1, Chapter 13, 13.5, 13.7, 13.10, 13.13, 13.17, 13.18</li> <li>- Neuroscience Online: Section 2, Chapter 8, 8.1</li> <li>- Carlson &amp; Birkett: Chapter 4</li> </ul>	<p><b>Due <u>Wednesday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Flip: Non-Medical Adderall Use</li> </ul> <p><b>Due <u>Sunday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Psychopharmacology Quiz</li> <li>- Neurotransmitter Systems Quiz</li> </ul> <p><u>Participation Credit</u></p> <ul style="list-style-type: none"> <li>- Flip: Non-Medical Adderall Use Replies</li> <li>- Discussion Board Posts on Neurons and Neurotransmission, Neuroanatomy, Psychopharmacology, and Neurotransmitter Systems</li> </ul>
<b>Exam 1</b> 5/20-5/21	<p><b>Exam 1</b></p> <ul style="list-style-type: none"> <li>- Neurons and Neurotransmission</li> <li>- Neuroanatomy</li> <li>- Psychopharmacology</li> <li>- Neurotransmitter Systems</li> </ul>	<p><b><u>Monday</u>, 5/20 at 12:01 AM</b></p> <ul style="list-style-type: none"> <li>- Exam 1 Available</li> </ul> <p><b><u>Tuesday</u>, 5/21 by 11:59 PM</b></p> <ul style="list-style-type: none"> <li>- Exam 1 Due</li> </ul>

Week	Readings and Online Video Lectures	Assignments
<b>Week 3</b> <b>5/20-5/26</b>	<p><b>Learning Module: Visual Perception</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Visual Perception</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 2, Chapter 14, 14.3-14.5</li> <li>- Neuroscience Online: Section 2, Chapter 15</li> <li>- Carlson &amp; Birkett: Chapter 6</li> </ul> <p><b>Learning Module: Auditory Perception and Somatosenses</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Auditory Perception</li> <li>- Somatosenses</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 2, Chapter 12</li> <li>- Neuroscience Online: Section 2, Chapter 13</li> <li>- Carlson &amp; Birkett: Chapter 7</li> </ul>	<p><b>Due <u>Sunday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Visual Perception Quiz</li> <li>- Auditory Perception and Somatosenses Quiz</li> </ul>
<b>Week 4</b> <b>5/27-6/2</b>	<p><b>Learning Module: Fear and Aggression</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Fear and Aggression</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 4, Chapter 6, 6.5, 6.6</li> <li>- Carlson &amp; Birkett: Chapter 11</li> </ul> <p><b>Learning Module: Sex and Sex Differences</b></p> <p><u>Required Videos</u></p> <ul style="list-style-type: none"> <li>- Sex and Sex Differences</li> </ul> <p><u>Required Reading</u></p> <ul style="list-style-type: none"> <li>- LeVay, 1991</li> </ul> <p><u>Recommended Readings</u></p> <ul style="list-style-type: none"> <li>- Carlson &amp; Birkett: Chapter 11</li> </ul>	<p><b>Due <u>Wednesday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Flip: Criminal Behavior and Biology</li> </ul> <p><b>Due <u>Sunday</u> by 11:59 PM</b></p> <p><u>Required</u></p> <ul style="list-style-type: none"> <li>- Fear and Aggression Quiz</li> <li>- Sex and Sex Differences Quiz</li> <li>- LeVay Article Assignment</li> </ul> <p><u>Participation Credit</u></p> <ul style="list-style-type: none"> <li>- Flip: Criminal Behavior and Biology Replies</li> <li>- Discussion Board Posts on Visual Perception, Auditory Perception and Somatosenses, Fear and Aggression, and Sex and Sex Differences</li> </ul>
<b>Exam 2</b> <b>6/3-6/4</b>	<p><b>Exam 2</b></p> <ul style="list-style-type: none"> <li>- Visual Perception</li> <li>- Auditory Perception and Somatosenses</li> <li>- Fear and Aggression</li> <li>- Sex and Sex Differences</li> </ul>	<p><b><u>Monday</u>, 6/3 at 12:01 AM</b></p> <ul style="list-style-type: none"> <li>- Exam 2 Available</li> </ul> <p><b><u>Tuesday</u>, 6/4 by 11:59 PM</b></p> <ul style="list-style-type: none"> <li>- Exam 2 Due</li> </ul>

Week	Readings and Online Video Lectures	Assignments
<b>Week 5</b> <b>6/3-6/9</b>	<b>Learning Module: Learning and Memory</b>  <u>Required Videos</u> <ul style="list-style-type: none"> <li>- Learning and Memory</li> </ul> <u>Recommended Readings</u> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 4, Chapter 5, 5.6</li> <li>- Neuroscience Online: Section 4, Chapter 7, 7.3, 7.4 (only the subsection on long-term potentiation)</li> <li>- Carlson &amp; Birkett: Chapter 13</li> </ul>	<b>Due <u>Sunday</u> by 11:59 PM</b>  <u>Required</u> <ul style="list-style-type: none"> <li>- Learning and Memory Quiz</li> </ul>
<b>Week 6</b> <b>6/10-6/16</b>	<b>Learning Modules: Neurological Disorders</b>  <u>Required Videos</u> <ul style="list-style-type: none"> <li>- Alzheimer's Disease</li> <li>- Parkinson's Disease</li> </ul> <u>Recommended Readings</u> <ul style="list-style-type: none"> <li>- Neuroscience Online: Section 3, Chapter 6, 6.3</li> <li>- Neuroscience Online: Section 4, Chapter 10</li> <li>- Carlson &amp; Birkett: Chapter 15 (only the subsections on Dementia and Parkinson's Disease)</li> </ul> <b>Learning Module: Psychiatric Disorders</b>  <u>Required Videos</u> <ul style="list-style-type: none"> <li>- Mood Disorders</li> <li>- Anxiety Disorders</li> <li>- Schizophrenia</li> </ul> <u>Required Reading</u> <ul style="list-style-type: none"> <li>- Kraehenmann et al., 2015</li> </ul> <u>Recommended Readings</u> <ul style="list-style-type: none"> <li>- Carlson &amp; Birkett: Chapter 16</li> </ul>	<b>Due <u>Wednesday</u> by 11:59 PM</b>  <u>Required</u> <ul style="list-style-type: none"> <li>- Flip: Stigma and Psychiatric Disorders</li> </ul> <b>Due <u>Sunday</u> by 11:59 PM</b>  <u>Required</u> <ul style="list-style-type: none"> <li>- Neurological Disorders Quiz</li> <li>- Psychiatric Disorders Quiz</li> <li>- Kraehenmann et al. Article Assignment</li> </ul> <u>Participation Credit</u> <ul style="list-style-type: none"> <li>- Flip: Stigma and Psychiatric Disorders Replies</li> <li>- Discussion Board Posts on Learning and Memory, Neurological Disorders, and Psychiatric Disorders</li> </ul>
<b>Exam 3</b> <b>6/17-6/18</b>	<b>Exam 3</b> <ul style="list-style-type: none"> <li>- Learning and Memory</li> <li>- Neurological Disorders</li> <li>- Psychiatric Disorders</li> </ul>	<b><u>Monday</u>, 6/19 at 12:01 AM</b> <ul style="list-style-type: none"> <li>- Exam 3 Available</li> </ul> <b><u>Tuesday</u>, 6/20 by 11:59 PM</b> <ul style="list-style-type: none"> <li>- Exam 3 Due</li> </ul>

### Summary of Key Dates (Subject to change)

Wednesday, 5/8 by 11:59 PM	Flip: Introductions
Sunday, 5/12 by 11:59 PM	Neurons and Neurotransmission Quiz
	Neuroanatomy Quiz
	Flip: Replies to Introductions (Participation Points)
Wednesday, 5/15 by 11:59 PM	Flip: Non-Medical Adderall Use
Sunday, 5/19 by 11:59 PM	Psychopharmacology Quiz
	Neurotransmitter Systems Quiz
	Flip: Replies to Non-Medical Adderall Use (Participation Points)
	Discussion Board: Replies to Neurons and Neurotransmission (Participation Points)
	Discussion Board: Replies to Neuroanatomy (Participation Points)
	Discussion Board: Replies to Psychopharmacology (Participation Points)
	Discussion Board: Replies to Neurotransmitter Systems (Participation Points)
<b>Monday, 5/20 at 12:01 AM</b>	<b>Exam 1 Available</b>
<b>Tuesday, 5/21 by 11:59 PM</b>	<b>Exam 1 Due</b>
Sunday, 5/26 by 11:59 PM	Visual Perception Quiz
	Auditory Perception and Somatosenses Quiz
Wednesday, 5/29 by 11:59 PM	Flip: Criminal Behavior and Biology
Sunday, 6/2 by 11:59 PM	Fear and Aggression Quiz
	Sex and Sex Differences Quiz
	LeVay Article Assignment
	Flip: Replies to Criminal Behavior and Biology (Participation Points)
	Discussion Board: Replies to Visual Perception (Participation Points)
	Discussion Board: Replies to Auditory Perception and Somatosenses (Participation Points)
	Discussion Board: Replies to Fear and Aggression (Participation Points)
	Discussion Board: Replies to Sex and Sex Differences (Participation Points)
<b>Monday, 6/3 at 12:01 AM</b>	<b>Exam 2 Available</b>
<b>Tuesday, 6/5 by 11:59 PM</b>	<b>Exam 2 Due</b>
Sunday, 6/9 by 11:59 PM	Learning and Memory Quiz
Wednesday, 6/12 by 11:59 PM	Flip: Stigma and Psychiatric Disorders

Sunday, 6/16 by 11:59 PM	Neurological Disorders Quiz
	Psychiatric Disorders Quiz
	Kraehenmann et al. Article Assignment
	Flip: Replies to Stigma and Psychiatric Disorders (Participation Points)
	Discussion Board: Learning and Memory (Participation Points)
	Discussion Board: Neurological Disorders (Participation Points)
	Discussion Board: Psychiatric Disorders (Participation Points)
<b>Monday, 6/17 at 12:01 AM</b>	<b>Exam 3 Available</b>
<b>Tuesday, 6/18 by 11:59 PM</b>	<b>Exam 3 Due</b>