

PSY 330 - 06
Foundations of Behavioral Neuroscience (Winter 2022)
AuSable Hall 1310
M W F 12:00 – 12:50,

Instructor: Jerry S. Fisher, Ph.D.

Email: fishejer@gvsu.edu

Office hours: 1:00pm – 2:30pm MW & 1:00pm – 2:00pm F (Virtual or In-person at 2115 AuSable Hall).

Zoom link (for remote class or office hours): <https://gvsu-edu.zoom.us/j/95283843568?pwd=R0JUei91Snp2V3dyZnNGNITWHVMZz09>

Textbook: Physiology of Behavior, 12th Edition by Neil R. Carlson & Melissa A. Birkett (*11th or 10th editions, with sole author Neil Carlson, are approved for use. Page numbers of readings may vary.*)

Course 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

Lakers Together:

Classes are held in person in AuSable Hall 1310. Face coverings must be worn during class time, must cover the mouth and nose, and fit snugly against the sides of the face.

Late Assignments and Missed Exams:

Late assignments will be accepted, *but* they will be penalized 5% for each 24-hour delay. As such, it is important to turn assignments in on time. Extensions will be only be granted in the event of illness or family emergency (see next section).

In the Event of Illness or Emergency:

Make up exams and homework/writing extensions will be available in the event of illness or emergency. If such an event happens, you should (1) contact me before the exam takes place (or the assignment is due) and let me know your situation and (2) provide me with official documentation, such as a physician's note.

Holiday and Special Needs:

Please let me know at the beginning of the semester if you will have to miss a class or reschedule an exam due to a religious holiday. The more notice I am given, the more likely it is that I can accommodate your needs.

Please also let me know at the beginning of the semester if you have a disability or special needs in the classroom or on exams. I will work with Disability Support Services to make accommodations for you.

GVSU Course Policies:

This course is subject to the GVSU policies listed at <http://www.gvsu.edu/coursepolicies>. At this website you can find all policies related to such topics as academic integrity, disabilities, inclusion, and discrimination. Please note that you are responsible for knowing and following the policies that are listed here. It is a good idea to read through them to familiarize yourself with them.

Note that violations of the academic integrity policy, including plagiarism or cheating on exams, will result in the student earning a failing grade for the assignment. If the violation is severe, the student will fail the course.

Grade Breakdown and Scale:

Your grades will be based on 12 homework assignments (120 points total), 12 quizzes (120 points total), and four exams (400 points total). Your letter grade will be based on the proportion of these points that you receive out of the total 640 possible (see the Grade Scale). Extra credit opportunities will be announced in class.

Grade Item	Points
Homework	120
Quizzes	120
Exam 1	100
Exam 2	100
Exam 3	100
Exam 4 (Final)	100
Total	640

Grade Scale:

Grade	Percent	Grade	Percent
A	94-100%	C+	78-79%
A-	90-93%	C	72-77%
B+	88-89%	C-	70-71%
B	82-87%	D	60-69%
B-	80-81%	F	0-59%

Grading is NOT on a curve. Your percentage will be rounded to the nearest integer (e.g., 87.4 → 87 or 87.5 → 88). In the interest of fairness, I will follow this rule strictly for all students.

Course schedule: (Subject to change-- some topics may extend into the following week)

Week	Topic	Assignments
1 (Jan 10, 12, 14)	Class Introduction / A Brief History of Neuroscience	
2 (Jan 19, 21)	Neurons	HW 1 Due / Quiz 1
3 (Jan 24, 26, 28)	Nervous System	HW 2 Due / Quiz 2
4 (Jan 31; Feb 2, 4)	Psychopharmacology / Methods of Research	HW 3 Due / Quiz 3
Unit 1 Exam (Friday, Feb 4th)		
5 (Feb 7, 9, 11)	The Eye and Visual System	HW 4 Due / Quiz 4
6 (Feb 14, 16, 18)	Audition, Somatosensation, Gustation, Olfaction	HW 5 Due / Quiz 5
7 (Feb 21, 23, 25)	Movement / Attention	HW 6 Due / Quiz 6
Unit 2 Exam (Friday, Feb 25th)		
8 (Feb 28; Mar 2, 4)	Sleep / Consciousness	HW 7 Due / Quiz 7
9 (Mar 7, 9, 11)	<i>Spring Break (no class)</i>	
10 (Mar 14, 16, 18)	Reproductive Behavior / Emotion	HW 8 Due / Quiz 8
11 (Mar 21, 23, 25)	Ingestion / Memory	HW 9 Due / Quiz 9
12a (Mar 28, 30)	Memory	
Unit 3 Exam (Wednesday, Mar 30th)		
12b (Apr 1)	Language	
13 (Apr 4, 6, 8)	Language / Neurological Disorders	HW 10 Due / Quiz 10
14 (Apr 11, 13, 15)	Schizophrenia / Affective Disorders	HW 11 Due / Quiz 11
15 (Apr 18, 20, 22)	Anxiety / Drug Abuse	HW 12 Due / Quiz 12
Unit 4 Exam (Wednesday, April 27)		