

**ADVANCED BIOPSYCHOLOGY
PSYCHOLOGY 514
SPRING 2025**

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Class Location: AH 0401
Days Wednesday
Time: 9:00 – 11:45
Office Hours: Monday 12-1 and by apt.
Course Info available on Blackboard

Course Objectives: This course will focus on the workings of the central nervous system, particularly the brain, the study of biological foundations of behavior, and the structure and function of the brain as related to personality, behavior, and health.

Course Goals:

Students who successfully meet the objectives of this course will be able to proficiently:

- Demonstrate understanding of the structure and function of cells and systems
- Demonstrate understanding of how the above speaks to normal and abnormal behavior
- Move on to more specialized coursework and/or research in the field of biopsychology (e.g., neuropsychology, psychopharmacology, psychoneuroimmunology)

Prerequisites: Psych 314 and graduate status in Psychology, or consent of the instructor

Required Text: Carlson, N.R. (2021). Physiology of Behavior, 13th edition. Pearson: Boston.

*Additional readings may be assigned as we go.

Workload: This course will require you to read about one chapter, and possibly some additional readings, per week. **Students are strongly encouraged to read the assigned material (book and PPT notes) prior to coming to class.** There will be three non-cumulative exams throughout the course of the semester based on the readings and lectures. Each exam will consist primarily of multiple choice and fill in the blanks. Essay questions and diagram labeling may also occur on some exams. My PowerPoint notes for class will be available to you each week on Blackboard. Also, sometimes I may need to send messages to your class via e-mail – please be sure to check your SIUE e-mail account regularly for such messages.

Grades:

Exam 1 – 100 pts	A = 270 pts (90%)
Exam 2 – 100 pts	B = 240 pts (80%)
Exam 3 – 100 pts	C = 210 pts (70%)
Total = 300 pts	D = 180 pts (60%)
	F = < 180 pts (< 60%)

Extra Credit: A small amount of extra credit will be available in two forms. A PowerPoint of very commonly prescribed psychotropic medications has been placed on BB for your convenience; I will give a brief, multiple choice quiz on this before the first exam on which you can earn up to 5 extra credit points toward your first exam. Also, you have the option of giving a 5-minute PowerPoint presentation over any biopsych-related topic of your choice and how it will relate to your future as a clinical, clinical child, or school psychologist. The CA students will do this right before Exam 1 and the CCS students will do this right before Exam 3. **Your PowerPoint must be e-mailed to me by 9:00 a.m. on the day of your presentation.** You can earn up to 10 points on your third exam for this.

POLICIES

Students with Special Needs – Students needing accommodations because of medical diagnosis or major life impairment will need to register with **Accessible Campus Community & Equitable Student Support (ACCESS)** and complete an intake process before accommodations will be given. Students who believe they have a diagnosis but do not have documentation should contact ACCESS for assistance and/or appropriate referral. The ACCESS office is located in the Student Success Center, Room 1203. You can also reach the office by e-mail at myaccess@siue.edu or by calling 618.650.3726. If you feel you would need additional help in the event of an emergency situation, please notify your instructor to be shown the evacuation route and discuss specific needs for assistance. For more information on policies, procedures, or necessary forms, please visit the ACCESS website at www.siue.edu/access.

DEPARTMENT OF PSYCHOLOGY POLICY ON INCOMPLETE GRADES AND WITHDRAWAL

All withdrawals must be completed by the end of the 13th week of classes during fall and spring, and by a similarly late date (i.e., before 82% of class meetings have occurred) in any summer term. Grades that apply to students who initiate a withdrawal and grades that apply when a student fails to officially withdraw within established deadlines are determined by university policy (see <http://www.siue.edu/policies/1j1.shtml>). The granting of a grade of I (Incomplete) is not automatic. It is available only in cases when a student has completed most of the work required for a class but is prevented by a medical or similar emergency from completing a small portion of the coursework before the deadline for grade submission. An I must be approved by the instructor with appropriate documentation provided by the student. If an instructor agrees to give a student an I, the instructor will fill out a Memorandum of Incomplete Grade to be kept with the student's records. If the work is not completed by the time specified on the Memorandum, the student's grade will be changed from I to F.

DEPARTMENT OF PSYCHOLOGY WRITING POLICY - As a student in this course, you will be expected to display university-level writing, which includes completing course assignments that meet the following basic writing criteria. Specifically, all written assignments completed for this course should include:

- clear transitions from sentence to sentence and idea to idea (e.g., paper is organized/flows well);
- verb tense consistency;
- clear and unambiguous sentences and ideas;
- writing that is free of typos, spelling errors, and major grammatical errors;
- properly formatted citations and references (if relevant).

This is by no means an exhaustive list of basic writing skills, but will give you an idea of what we are looking for in our papers. If you feel you need help with your writing, you are encouraged to seek assistance from the writing center on campus (<http://www.siue.edu/is/writing>) or utilize one of the many online resources they have identified to help students (<http://www.siue.edu/is/writing/resources.shtml>). If your graded written assignments fail to meet the basic writing requirements listed above (and any others found to be appropriate by your instructor), the instructor will stop the grading process and return the paper to you (see below for the specific policy for this class).

The penalty for unacceptable writing in this class is as follows: A grade of zero until an acceptable draft is turned in prior to the stated deadline.

DEPARTMENT OF PSYCHOLOGY POLICY ON PLAGIARISM - Plagiarism includes presenting someone else's words without quotation marks (even if you cite the source), presenting someone else's ideas without citing that source, or presenting one's own previous work as though it were new. When paraphrasing from another source or your own work, at the very least, the student should change the wording, sentence syntax, and order of ideas presented in the paper. Additionally, you should not submit a paper, or parts of a paper, written to fulfill the requirements of one class for the requirements in another class without prior approval of the current instructor and appropriate citation. Ideally, the student will integrate ideas from multiple sources

Missed or Cancelled Class –As graduate students, you are expected to attend all class periods. However, if you are sick or some sort of emergency crops up, an occasional absence may occur. In that case, on Blackboard you will find the PPT notes as well as pre-recorded lectures from a previous year. These lectures will be similar

to, although may not be perfectly identical to, what is discussed during this year’s class periods. As such, you are also strongly encouraged to get lecture notes from a classmate.

Also, it is a university policy that should class be cancelled for any reason (e.g., my illness, a snow day, etc.), a substitute assignment be in place to make up for the missed class period. If class is cancelled for any reason this semester, I would ask you to spend the class time watching the corresponding lecture for the day on your own – these are all posted on our BlackBoard site – under “Coursework,” the very top tab says, “Audio Files for the Class” and a video for each lecture* is posted there. (*Except the lecture over the Movement chapter!)

SIUE Mental Health Resources: SIUE is now partnered with TimelyCare to deliver a new virtual health and well-being platform for students. Through either a mobile app or your desktop, TimelyCare provides 24/7 access to virtual care from anywhere in the United States at no cost. Visit timelycare.com/SIUE or download the TimelyCare app from your app store and register with your school email address. You can then start visits from any web-enabled device – smartphone, tablet, laptop, or desktop – anywhere in the United States.

What services are available?

- TalkNow - 24/7, on-demand emotional support.
- Scheduled Counseling - Select the day, time, and mental health provider of your choice. (9 visits/year)
- Health Coaching - Support for developing healthy behaviors.
- Basic Needs Support - Get connected to low or reduced-cost community resources.
- Self-Care Content – Yoga, meditation, & group conversations with our providers on a variety of health/well-being topics.

Approximate Schedule*:

*The schedule (including exams) may change at the discretion of the professor

Date	Topic for today:	Have read for today:
1/15	Introduction/Welcome	
1/22	Structure of Neurons	Ch 2
1/29	Structure of the NS	Ch 3
2/5	Psychopharmacology - just do the first 2/3 of Ch 4 (skip Neurotransmitters and Neuromodulators section)	Ch 4 only (we will also go over some notes for Ch 5, but you don't need to review and will not be tested over these)
2/12	Finish up, EC quiz on common psychotropics, brain, review day, CA EC presentation day	
2/19	Exam 1 on Chapters 2, 3, first 2/3 of 4 <u>There's a chance I will be out of town this day. If so, you will have a proctor giving your exam or it may be administered online – still TBD</u>	
2/26	Movement	Ch 8
3/5	Sleep	Ch 9
3/12	Spring Break	
3/19	Emotion	Ch 11
3/26	Learning and Memory	Ch 13
4/2	Exam 2 on Chapters 8, 9, 11, 13	
4/9	Neurological Disorders	Ch 16
4/16	Psychological Disorders – 1	Ch 17
4/23	Psychological Disorders – 2	Ch 18
4/30	Finish up, review day, CCS EC presentation day	
5/7	Exam 3 on Chapters 15, 16, 17	