

**Psychology 431 (Section 01)**  
**Introduction to Neuropsychology**  
Winter 2023, T. Th. 11:30 – 12:45 pm in ASH 1204

**Instructor:** Xandra Xu, Ph.D.  
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(Email is the best way to reach me. If you put your class number and section number in the subject line of your email, you typically receive a response within 2-3 business days. If you don't put your class number and section number in the subject line of your email, it will take longer time to receive a response.)

**Office hour:** T. Th. 12:50–1:50 pm in person at ASH 2204 or join Zoom Meeting at:  
<https://gvsu-edu.zoom.us/j/95361819105?pwd=VmNDY0VzS1Bzd1d2aEFXZGNUNVAyQT09>  
Meeting ID: 953 6181 9105                      Passcode: 537498

Please click the following link to schedule your appointment for a time slot on T. Th. 12:50–1:50 pm  
<https://calendar.google.com/calendar/u/1?cid=Y19pYm4wYnZib2R0ODNobnJmdmFoZXNlbmlxMEBncm91cC5jYWxlbmRheci5nb29nbGUuY29t>

**Texts:**

Required: Kolb, B. and Whishaw, I. Q. (2021). Fundamentals of Human Neuropsychology (8<sup>th</sup> ed.), Worth Publishers: New York.

**Course description:**

This course will introduce students to the physiology and functions of the human brain. The course first provides students with necessary background information, including neural communication, neuroanatomy, and sensory and motor system, needed to the study of the brain. The course then focuses on the cerebral asymmetry, and the anatomical functions of occipital, parietal, temporal, and frontal lobes. Finally, the course emphasizes higher functions, such as memory and language, which require continual interaction of the different lobes; and examines abnormalities of the brain. Lectures will focus on selected concepts and theories. Students will be responsible for all materials presented in the texts as well as lectures. Prereq. Psy 101 and Psy 300.

**Learning objectives:**

Upon successful completion of this course, students will 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
- Explain the sensory and motor systems
- Analyze and think critically about basic research regarding cerebral asymmetry
- Discuss functions of the four lobes of the cerebral hemispheres
- Analyze neuropsychological concepts with respect to their relationship to everyday behavior

**Course delivery/method of instruction:**

This course is taught in face-to-face formats, but also using Blackboard for quizzes and assignments. Although the course blackboard contains video lectures used in previous semesters for your convenience, it is students' responsibility to make sure that they receive updated materials for this semester in class.

**Course evaluation:**

Exams and the Final Exam: There will be two within semester exams and a final exam. Each exam will be worth 50 points and the final exam 100 points. Exams and the final will consist of identification of brain structures, multiple choice, true-false, matching, and fill-in the blank questions. Multiple choice, true-false, and matching questions must be answered on the scantron sheet in order to receive any points for those questions.

**Students are not allowed to use any external materials, such as books, notes, paper, other devices, during any exams.** In the final computation of your grade, the 50 points from quizzes and assignments described below will be included. The final grades will be based upon your percentage of total points (i.e., the number of points you earned divided by the total number of points possible, which is 250).

**Missed exams and missed final exams: Students must take exams as scheduled in this syllabus in person.**

Any within semester exam that any student cannot take as scheduled in this syllabus is considered as a missed exam. Students with documentations that can substantiate legitimate reasons for missing a scheduled exam will either receive prorated points according to their performance on the final exam or take a different version of the exam consisting of essay questions that are typically given during the final exam week. You must notify me your decision to receive prorated points or to take a make-up exam consisting of essay questions, and turn in the documentations to me within a week of the missed exam. If I do not receive a written notification and documentations within a week of the missed exam, you will receive "0". Students with legitimate reasons and documentations for missing the final exam as scheduled in the syllabus will take a different version of the final exam consisting of essay questions. Students without legitimate reasons for missing any scheduled exam or the scheduled final exam in this syllabus will receive "0".

**Quizzes and assignments:** quizzes and assignments will be worth 50 points. Quizzes and assignments will be given in the course blackboard, and are open-book and open-notes. Quizzes and assignments are intended to guide students towards important concepts or theories or key issues and help students prepare for exams, and the points resulted from quizzes and assignments that are open-book and open-notes are intended to increase students' grade. This course focuses on learning the particular material. Students receive points from quizzes and assignments for demonstrating learning with the aid of books and notes. **Quizzes and assignments are open-book and open-notes, but they are graded.** While assignments may be submitted remotely or in class, quizzes must be taken in class. Students with legitimate reasons and documentations for missing a quiz will receive prorated points for the missed quiz based on their performance on the next quiz they take. **Note:** No individual students will be given any opportunity to earn extra points. Any possible opportunity to earn extra points will be given in class.

**Grading:**

A:	= or > 93%	C+:	= or > 77 % to < 80 %
A-:	= or > 90 % to < 93 %	C:	= or > 73 % to < 77 %
B+:	= or > 87 % to < 90 %	C-:	= or > 70 % to < 73 %
B:	= or > 83 % to < 87 %	D+:	= or > 65 % to < 70 %
B-:	= or > 80 % to < 83 %	D:	= or > 60 % to < 65 %

**Course Schedule:** (Underlined dates are exam dates)

Date	Topic	Reading assignments
Jan. 10, 12	Development of neuropsychology	Chapters 1 & 4
Jan. 17, 19	Neural communication	Chapters 5 & 6
Jan. 24, 26	Neuroanatomy	Chapter 3
Jan. 31, Feb. 2	Sensory systems	Chapter 8
Feb. 7, <u>9</u> (1, 3-6, 8-9)	Motor system	Chapter 9
Feb. 14, 16	Cerebral asymmetry	Chapters 11 & 12
Feb. 21, 23	Occipital lobes	Chapter 13
Feb. 28, Mar. 2	Parietal and Temporal lobes	Chapters 14 & 15
Mar. 5-12	Spring Break	
Mar. 14, 16	Temporal and Frontal lobes	Chapters 15 & 16
Mar. 21, <u>23</u> (11-16)	Frontal lobes	Chapter 16
Mar. 28, 30	Learning and memory	Chapter 18
Apr. 4, 6	Language	Chapter 19
Apr. 11, 13	Neurological disorders	Chapter 26
Apr. 18, 20	Psychiatric disorders and Neuropsychological assessment	Chapters 27 & 28
<b>Apr. 25, Tue. 10 - 11:50 pm: Final Exam (3, 4, 5, 6, 18, 19, 26, 27, 28)</b>		

**Drop deadline - grade of "W" - Fri., Mar. 10, 5 pm.**

This course is subject to the GVSU policies listed at <http://www.gvsu.edu/coursepolicies>

***Academic Integrity***

Students will do original work and will not take or receive the efforts of another person on any test or assignment, use unauthorized resources on quizzes or tests, plagiarize, or give/sell other students papers or assignments *not authorized by the instructor*. ***You are responsible*** for not giving the appearance of cheating, such as wandering eyes or talking during exams. ***You are responsible*** for making yourself aware of and for understanding the policies and procedures that pertain to academic integrity. To that end, be sure to familiarize yourself with the GVSU Student Code related to academic integrity and [Integrity of Grades & Scholarship](#).

***Disability***

If there is any student in this class who has special needs because of a learning, physical, or other disability, please contact me and Disability Support Resources (DSR) at (616) 331-2490. Furthermore, if you have a disability and think you will need assistance evacuating this classroom and/or building in an emergency, please make me aware so that the university and I can develop a plan to assist you. It is the *student's responsibility* to request assistance from DSR.