

Neuropsychology (Psychology 3311, section 002)
Tuesday and Thursday, 9:30-10:45, Spring, 2005

Instructor: D. Erik Everhart, Ph.D.
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Office Hours: M: 8-9am
 T: 11:00 – 12:00, 1:30 – 2:30pm
 Th: 11:00 – 12:00, 1:30 – 2:30pm
 Also by appointment

Required Texts:

- (1) **Banich, M.T.** (2004). *Cognitive Neuroscience and Neuropsychology*. Boston: Houghton Mifflin.
 (2) **Sacks, O.** (1970). *The man who mistook his wife for a hat and other clinical tales*. New York: Touchstone.

Course Objectives: Students that complete this course will attain understanding of: (1) basic neuronal physiology and neuroanatomy. (2) cortical lesion syndromes and brain disorders affecting higher functions (3) basic research on executive function, spatial processing, language, memory, attention, laterality, and emotion.

Class attendance policy: Each lecture/section will build upon previous information discussed in class. Therefore, in order to gain adequate understanding of course material, the student is expected to attend class. Should you happen to miss a class, you are advised to get the notes from a classmate. Do **NOT** ask your instructor for the lecture notes. The instructor will not give these notes out (they would only serve to confuse you).

Requirements:	Three examinations (100 points each)	300
	Final examination (150 points)	150
	Total Points Available:	450

Grading Practices: Your grade in this course will be determined by your scores on three examinations, and one final examination (see above). Final grades will be derived from the percentage of total available points (i.e., 375/450 points = 83% = B). There will be no curve for each individual test. Should it be necessary (as determined by the instructor), at the end of the semester grade adjustments will be made. 90 – 100% = A, 80 – 89% = B, 70 – 79% = C, 60 – 69% = D, and < 60% = F. Test format may consist of multiple choice, matching, short answer, definitions, and short and long essay. All exams are cumulative and the student should expect that some content knowledge required for any given examination may reappear in a similar format on subsequent examinations. The final examination is comprehensive and cumulative.

NO MAKE-UP EXAMINATIONS WILL BE GIVEN UNDER ANY CIRCUMSTANCES! IF YOU MISS AN EXAM, I WILL SUBSTITUTE THE PERCENTAGE SCORE THAT YOU RECEIVE ON THE FINAL EXAMINATION. THUS, IF YOU RECEIVE A 77% (115/150) FOR THE FINAL, 77/100 POINTS WILL BE ASSIGNED FOR THE EXAM THAT YOU MISSED. IF YOU MISS A SECOND EXAMINATION, A ZERO WILL BE ASSIGNED FOR THAT EXAM. MISSING THE FINAL EXAMINATION WILL ALWAYS RESULT IN A ZERO FOR THE FINAL EXAMINATION.

Academic dishonesty (cheating on quizzes and examinations) will not be tolerated. The penalty for cheating is an automatic “F” for the course. The University may impose other penalties, as deemed necessary.

Extra credit: Yes, students can participate in psychology experiments for extra credit. You are encouraged to do this, as your participation will expand your knowledge about psychological experiments. You may receive up to **15 points** of extra credit for this course. Extra credit points used for this course may **not** be used for other classes. There are two other extra credit options available (i.e., seminars and journal article reviews). These will be discussed in class. **ALL EXTRA CREDIT MUST BE HANDED IN BY THE LAST DAY OF CLASS. NO EXCEPTIONS.**

A few words from your instructor: Yes, my expectations for all of you are high. This course is not easy. Neuropsychology represents an extremely important area of neuroscience, as it is a bridge between psychology, neurology, and psychiatry. I will make every attempt to ensure that you are adequately prepared for the quiz, the examinations, and for the final. Should you experience difficulty in understanding the lecture and/or book material, please do not hesitate to come see me! If you cannot make office hours please make an appointment.

Finally, from time to time, I may assign a topic (from your textbook) for you to learn on your own. This is to prepare you for class lectures. Learning this material will assist you with your understanding of course material. As the student is expected to read assigned chapters anyway, this should represent no difficult additional challenges.

Schedule (subject to change):

B = Banich; S = Sacks

Jan 11	Cellular biophysics and cellular neuroscience : neurons and glial cells	B: 1-2
Jan 13	Neuronal communications (action potentials, EPSPs & IPSPs)	B: 1-2
Jan 18	Neuroanatomy: Spinal chord, peripheral nerves, cranial nerves	B: 1-2
Jan 20	Neuroanatomy: brainstem, cerebellum, diencephalon	B: 1-2
Jan 25	Neuroanatomy: cerebral cortex	B: 1-2
Jan 27	Methods in neuropsychology	B: 3
Feb 1	EXAMINATION I	
Feb 3	Methods in neuropsychology con't	
Feb 8	Hemispheric specialization	B: 4
Feb 10	Motor control: Part I	B: 5; S: 7, 10, 14
Feb 15	Motor control: Part II	B: 5
Feb 17	Object recognition: Part I	B: 6; S: 1
Feb 22	Object recognition: Part II	B: 6
Feb 24	Spatial processing: Part I	B: 7
Mar 1	Spatial processing: Part II	B: 7
Mar 3	EXAMINATION II	
Mar 8	Attention: Part I	B: 8; S: 3, 4
Mar 10	Attention: Part II	B: 8; S: 8
Mar 15	Spring break: CLASS DOES NOT MEET	
Mar 17	Spring Break: CLASS DOES NOT MEET	
Mar 22	Language: Part I	B: 9; S: 9
Mar 24	Language: Part II	B: 9
Mar 29	Memory: Part I	B: 10; S: 2, 12
Mar 31	Memory: Part II	B: 10
April 5	EXAMINATION III	
April 7	Executive function	B: 11
April 12	Emotion: Part I	B: 12; S: 9, 11, 13
April 14	Emotion: Part II	B: 12
April 19	Generalized cognitive disorders Part I: Closed Head Injury	B: 14
April 21	Generalized cognitive disorders Part II: Dementia syndromes	B: 14; S: 15, 18
	REVIEW SESSION: TBA	
May 3	FINAL EXAMINATION (cumulative) 8:00 – 10:30	

A few comments about the course schedule: Sometimes it is necessary to alter the course schedule given inclement weather or other unforeseeable events. The instructor reserves the right to alter the schedule as necessary. However, if alterations must be made, the student will be notified in advance and given sufficient time to prepare for any changes. **If you should happen to miss class (please don't):** If you should happen to miss a class, you are still responsible for the material covered.

In the event of a weather emergency, information about ECU can be accessed through the following sources:

ECU emergency notices <http://www.ecu.edu/alert>

ECU emergency information hotline: 252-328-0062

East Carolina University seeks to fully comply with the Americans with Disabilities Act (ADA). Students requesting accommodations based on a covered disability must go to the Department for Disability Support Services, located in Brewster A-114, to verify the disability before any accommodations can occur. The telephone number is 252-328-6799.