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Spring 1-2016

### PSYX 356.01: Human Neuropsychology

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# **Psyx 356 – Human Neuropsychology**

**Spring 2016**

## **Course Location and Time**

SS 356

Tuesday and Thursday 11:10 – 12:30

## **Instruction Information**

Instructor: Stuart Hall, Ph.D.

Email: [stuart.hall@umontana.edu](mailto:stuart.hall@umontana.edu)

Office: Skaggs 207

Office hours: Monday, 3:30-4:30, Tuesday, 1:00 – 2:30, and by appointment

## **Recommended Text**

*A Colorful Introduction to the Anatomy of the Human Brain.* John P. J. Pinel, Allyn and Bacon, 2008

## **Course Goals and Objectives**

### **Knowledge Base**

- Develop a deeper understanding of human functional neuroanatomy
- Gain familiarity with the major neurological syndromes exhibited by humans after lesions to various regions of the brain (e.g., amnesia, unilateral neglect, aphasia, agnosia, frontal lobe syndrome).
- Gain familiarity with the major neurological disorders (e.g., head trauma, cerebrovascular disorders, epilepsy, and degenerative disorders).

### **Intellectual & Communication Skills**

PSYC 371 is an upper division class. Therefore, you should be able to both learn and utilize the material in an advanced manner. For example, you should be able to extract and organize material from lectures in a manner that will promote effective studying. You should be able to work with information (e.g., synthesize, evaluate and generalize from information provided in class) and reason toward answers--not just regurgitate information. You should also be able to effectively communicate your knowledge in writing and/or diagrams. Certain questions in each test will be designed to assess these skills. Finally, most students find that this class requires a good deal of studying to master the material. A positive attitude, hard work, and a consistent work ethic will pay off.

## **Course Guidelines and Policies**

### **Drop Date**

The 46<sup>th</sup> instructional day is the last day to drop or add a class. Beginning the 46<sup>th</sup> instructional day of the semester through the last day of instruction before scheduled examinations, [students must petition to drop](#).

## Academic Honesty

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the [Student Conduct Code](#).

## Disability Modifications

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and [Disability Services for Students](#). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with Disability Services, please contact Disability Services in Lommasson Center 154 or call 406.243.2243. I will work you and Disability Services to provide an appropriate modification.

## Prerequisite

The completion of PSYX 250, Fundamentals of Biological Psychology, is required prior to enrolling in PSYX 356. In PSYC 250, the student is introduced to topics fundamental to the material of PSYX 356. An “initial pass” of this material will be assumed and greatly expanded upon in PSYX 371.

## Cell Phones

Please make sure that your cell phone is turned off prior to coming to class.

## Assessment and Grades

Grades based on the average of the 3 best test scores (equally weighted):

89-100%=A, 79-88%=B, 69-78%=C, 59-68%=D, 58% and below=F

The plus/minus system will not be used. Test questions will require that you communicate clearly, reason towards answers from information that is provided in lecture and text, draw effective diagrams, and synthesize several items of information into a well- formulated answer (see above).

- **Test 1** covers section 1 lectures and supplemental material.
- **Test 2** covers section 2 lectures and and supplemental material.
- **Test 3** covers section 3 lectures and supplemental material.
- **Test 4** is an optional comprehensive final exam.

Each test is worth 50 points. Tests 1 - 3 will consist of 40 multiple choice questions and 10 points of short answer questions; the final will consist of 50 multiple choice questions. You will need a **blue/green** scantron (psychology).

## Make-up Policy and Final Exam

Make-up exams are not permitted unless a doctor's note for illness of some other formal documentation on an emergency is provided. In addition, you must contact me via email prior to the exam that you will miss the exam. The final exam is optional; grades are based on the 3 best scores. If you have to miss a scheduled exam, the final can serve as the make-up for the missed test. The final can also be used to substitute for a score on an earlier exam. In addition, because the final exam is comprehensive, it offers you the opportunity to review and master a previous section if you did not do as well as you would have liked on an earlier test.

## Lectures, Attendance, Supplemental Material and Videos

You will be responsible for all information from the lectures. It will also be necessary to study the supplemental material provided for each section. Students are responsible for any announcements

made in class. **It is critical to consistently attend lectures.** Information from videos may also be covered on tests. **KNOW YOUR NOTES.**

## **Class Schedule**

Section	Topics, Readings, Exams	Details
SECTION 1	Topics	Functional Neuroanatomy, Sensory Systems, Motor Systems, and Methods
	Readings	Neuroanatomy diagrams on Moodle <a href="#">Functional Neuroanatomy epsych</a> Recommended reading from Pinel: Chapters 1, 2, 5, 6, 7 (7.1, 7.6, 7.7, 7.8), 8, and 9 Supplemental site <a href="#">The Whole Brain Atlas</a>
	<b>TEST 1: February 25</b>	
SECTION 2	Topics	Cortical Organization and Neurological Syndromes
	Readings	Materials on Moodle Recommended reading from Pinel: 10.1, 10.2, 10.4, 12.4, 12.5 <a href="#">Functional Neuroanatomy epsych</a> PART 3 – Cerebral Cortex
	<b>TEST 2: March 24</b>	
SECTION 3	Topics	Neurological Disorders
	Readings	Materials on Moodle <a href="#">Brain Trauma</a> <a href="#">Vascular Disorders</a> <a href="#">Epilepsy</a> <a href="#">Alzheimer's Disease</a> ; Recommended reading from Pinel: 9.6 <a href="#">Parkinson's Disease</a> <a href="#">Multiple Sclerosis</a>
	<b>TEST 3: May 5</b>	
	<b>FINAL: May 13 8:00 – 10:00am</b>	