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Spring 2-1-2019

### PSYX 632.01: Introduction to Clinical Neuropsychology

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# Psychology 632 – Introduction to Clinical Neuropsychology

Spring 2019

## Course Location and Time

CPC 121

Monday: 3:00 – 4:20

Tuesday: 11:00 – 12:20

## Instructor Information

Instructor: Craig McFarland, Ph.D.

Office: Skaggs 202

Phone: 406.243.6845

Email: [craig.mcfarland@umontana.edu](mailto:craig.mcfarland@umontana.edu)

Office hours: M: 2:00 – 3:00; R: 12:30-1:30; and by appointment

## Course Objectives

The first objective of this class is to develop an understanding of human functional neuroanatomy and the major domains of cognition. Students will then learn about common neurological disorders and the neurological syndromes that characterize those disorders. Throughout, students will become familiar with approaches to neuropsychological assessment.

## Learning Outcomes

1. Students will demonstrate an understanding of human functional neuroanatomy, cognitive function, neurological disorders, and neuropsychological assessment, as evidenced by class discussions and exam performance.
2. Students will gain skills in delivering presentations of neuropsychological conditions.

## Course Requirements

### Attendance

Due to the small, seminar style of this class, it is imperative that you attend class each week. Each of you possesses unique strengths and perspectives that will contribute to the learning experience of the entire group. Conversely, your absence will detract from the experience of others. **One** unexcused absence will be permitted. Please email me prior to class regarding your absence. Any additional unexcused absences will negatively impact your grade.

### Class Participation

This class will be taught in seminar format. It is expected that all students will contribute to each week's discussion. You will be evaluated on the quality of your contributions, based on the following: Do the student's contributions demonstrate knowledge of the reading assignments? Are they insightful? Do they facilitate discussion and go beyond the reading?

## Student Evaluation

Grades will be based on 3 exams, 2 topic presentations, and class participation.

Each exam is worth 20 points

Topic presentations are worth 15 points each

Class participation is worth 10 points

## **Important Dates**

January 21<sup>st</sup>: No Class (MLK, Jr. Day)

February 18<sup>th</sup>: No Class (President's Day)

March 25<sup>th</sup>: Spring Break

March 26<sup>th</sup>: Spring Break

April 23<sup>rd</sup>: Last meeting

## **Course Materials**

*Readings will be taken from the following texts:*

Blumenfeld (2010). *Neuroanatomy through Clinical Cases*, 2<sup>nd</sup> ed.

Grant, I. & Adams, K. (2009). *Neuropsychological Assessment of Neuropsychiatric and Neuromedical Disorders*, Third Edition. New York, New York: Oxford University Press.

Kolb, B. & Whishaw, I.Q. (2009). *Fundamentals of Human Neuropsychology*, 6<sup>th</sup> ed. NY, NY: Worth Publishers.

Lezak, M. D., Howieson, D. B., & Loring, D.W. (2004). *Neuropsychological Assessment*, 4th ed. NY, NY: Oxford University Press.

Morgan, J.E. & Ricker, J.E. (2008). *Textbook of Clinical Neuropsychology*. NY, NY: Taylor and Francis Publishers, Inc.

Ogden, J. A. (2005). *Fractured Minds: A Case-Study Approach to Clinical Neuropsychology*, 2nd ed. NY, NY: Oxford University Press.

## **Course Guidelines and Policies**

### **Academic Integrity**

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a 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.

### **Add/Drop Deadline**

Please take note of important registration dates listed in the Spring academic calendar. Spring class day 45 is the last day to drop classes without the Dean's signature. After that date, no petitions to drop the course will be signed and no Incompletes will be given except in documentable emergency situations.

### **Student Feedback**

As with any graduate level course, your feedback and constructive comments for improving the course are always welcome. Because each of you has unique interests and training goals, I will actively seek your feedback at various points throughout the semester, but want you to feel free to share any thoughts you may have at any time.

## **Tentative Course Schedule**

## January

- 14<sup>th</sup>: Orientation/ Overview of Neuroanatomy (K&W 3)
- 15<sup>th</sup>: Occipital Lobe (K&W 13)
- 21<sup>st</sup>: NO CLASS – Martin Luther King, Jr. Day
- 22<sup>nd</sup>: Parietal Lobe (K&W 14)  
Cerebellum (Ch. 15 Blumenfeld pp. 698-702; bottom of 711-720)
- 28<sup>th</sup>: Temporal Lobe (K&W 15)
- 29<sup>th</sup>: Frontal Lobe (K&W 16)

## February

- 4<sup>th</sup>: **Exam #1 – Functional neuroanatomy**
- 5<sup>th</sup>: Memory (K&W 18 pp. 488-493) - Morgan 37
- 11<sup>th</sup>: Neuropsych Assessment – Lezak Ch. 5
- 12<sup>th</sup>: Neuropsych Assessment – Grant Ch. 2, 3 (pp. 42-46)
- 18<sup>th</sup>: NO CLASS – President's Day
- 19<sup>th</sup>: TBI – Morgan 21; Grant 25
- 25<sup>th</sup>: TBI – Case
- 26<sup>th</sup>: Vascular - Morgan 18, 20

## March

- 4<sup>th</sup>: Vascular – Case
- 5<sup>th</sup>: Toxic Exposure – Morgan 30
- 11<sup>th</sup>: Infections (Herpes)
- 12<sup>th</sup>: Tumors – Morgan 29  
**\*Exam #2 (TAKE HOME) – Submit by email no later than 10:00 pm on 3/19**
- 18<sup>th</sup>: Seizure Disorders – Morgan 23, 25
- 19<sup>th</sup>: Degenerative Disorders (Alzheimer's) Morgan 39
- 25<sup>th</sup>: SPRING BREAK!!!
- 26<sup>th</sup>: SPRING BREAK!!!

April

- 1<sup>st</sup>: Degenerative Disorders (Lewy Body) DLB Ch
- 2<sup>nd</sup>: Degenerative Disorders (Parkinson's) Grant 9
- 8<sup>th</sup>: Degenerative Disorders (Huntington's) Grant 10
- 9<sup>th</sup>: Degenerative Disorders (Multiple Sclerosis) Morgan 31
- 15<sup>th</sup>: Depression
- 16<sup>th</sup>: PTSD
- 22<sup>nd</sup>: Schizophrenia
- 23<sup>rd</sup>: Plasticity and Rehabilitation (K&W 25)

**\*Exam #3 (TAKE HOME) – Submit by email no later than 10:00 pm on 4/30**