

COURSE: 15:290:583:01 Biological Bases of Behavior, Fall 2012
INSTRUCTOR: Dan DaSilva, Ph.D.
TIME: Monday 4:50 to 7:30pm
OFFICE HOURS: By appointment
PHONE: 973-257-9000 extension 205
EMAIL: drdasilva@morrispsych.com
TEXTS:
1. **Beumont (2008) Introduction to Neuropsychology, Second Edition.**
2. **Pennington (2009) Diagnosing Learning Disorder: A Neuropsychological Approach, Second Edition.**
3. **Handouts**

9/10: Course Introduction

- ◆ Goals, requirements, paper guidelines
- ◆ History of neuropsychology
- ◆ Overview of the basic structures of the CNS
- ◆ *Reading: Beumont Ch 1*

9/17: General Brain Anatomy and Functional Systems

- ◆ Basic cellular structures and principles of transmission
- ◆ The CNS:
 - ◆ Spinal Cord
 - ◆ Brainstem
 - ◆ The Hemispheres
- ◆ *Reading: Beumont Ch. 2*

9/24: Frontal Lobes

- ◆ Anatomy
- ◆ Function
- ◆ Disorders
- ◆ *Reading: Beumont, Ch 3*

10/01: Neurological Disorders

- ◆ Overview
- ◆ *Reading: handouts and Beumont, Ch 8*

10/08: RESEARCH DAY

10/15: The Temporal Lobes

- ◆ Anatomy
- ◆ Function
- ◆ Disorders
- ◆ *Reading: Beumont Ch 4*

10/22: The Parietal Lobes

- ◆ Anatomy
- ◆ Function
- ◆ Disorders
- ◆ *Reading: Beaumont Ch 5*

10/29: Occipital Lobes

- ◆ Occipital Lobes
 - ◆ Anatomy
 - ◆ Function
 - ◆ Disorders
 - ◆ *Reading: Beaumont Ch 6*

11/05: Hemispheric Asymmetry

- ◆ *Reading Beaumont, Chs.10, 11,12, 14*

11/12: Psychopharmacology (Midterms Due)

- ◆ *Guest Lecturer: Richard Mistichelli, RPH*
- ◆ *Handouts*

11/19: Brain Injury, Behavior, and Psychopathology

- ◆ Traumatic Brain Injury
- ◆ Psychiatric disorders
- ◆ Additional topics of interest: Anoxia/hypoxia, toxic exposures, infections
- ◆ *Readings: Beaumont Ch 8*

11/26: Neuropsychology of LD (Part 1)

- ◆ *Readings: Pennington, Chs 6, 7, & 12*

12/03: Neuropsychology of LD (Part 1)

- ◆ *Readings: Pennington, Chs 6, 7, & 12*

12/10: Neuropsychological Assessment

- ◆ *Readings: Darby Ch 10 and Pennington Chs 1 and 2 (Chs 3, 4, 5 not required but will lead to greater personal enrichment).*

12/17: Presentations

Grading for this course will be based on a midterm, an eight to ten page scholarly paper (standard margins, double-spaced **meeting APA standards**) on a relevant topic, an in-class presentation, and class participation. Regular class attendance is REQUIRED and EXPECTED for successful completion of this course.

The midterm, paper, and presentation are each worth a third of the grade for this course.