

**COURSE:** Biological Bases of Behavior, Fall 2015  
**INSTRUCTOR:** Dan DaSilva, Ph.D.  
**TIME:** Monday 4:50 to 7:30  
**OFFICE HOURS:** By appointment  
**PHONE:** 973-257-9000 extension 205  
**EMAIL:** [drdasilva@morrispsych.com](mailto:drdasilva@morrispsych.com)  
**TEXTS:**  
1. Beaumont (2008) Introduction to Neuropsychology, Second Edition.  
2. Pennington (2009) Diagnosing Learning Disorder: A Neuropsychological Approach, Second Edition.  
3. Luria (1973) The Working Brain (optional but recommended)

### **9/8: Course Introduction**

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

### **9/14: General Brain Anatomy and Functional Systems**

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

### **9/21: Frontal Lobes**

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

### **09/28: Neurological Disorders**

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

### **10/05: The Temporal Lobes**

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

**10/12: The Parietal Lobes**

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

**10/19: Occipital Lobes**

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

**10/26: Hemispheric Asymmetry**

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

**11/02: RESEARCH DAY**

**11/09: Psychopharmacology (Midterms Due)**

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

**11/16: Brain Injury, Behavior, and Psychopathology**

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

**11/23: Neuropsychology of LD (Part 1)**

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

**11/30: Neuropsychology of LD (Part 1)**

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

**12/07: 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).*

**12/14: 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.