



**Psychology/Neuroscience 658-41
(Cognitive Neuroscience Laboratory)**

**Spring 2007
Thurs. 10-12
Stern 2021/3023**

Instructor: Dr. Thomas Hebert; 3037 Stern; Phone: 862-8331; Email: thebert1@tulane.edu
Office Hours: Monday, Friday 10:00-11:30 AM and by appointment

Teaching Assistant: Ms. Kate Autin; 3069 Stern; kautin@gmail.com

Required Text: None

Course Description and Objectives: Cognitive Neuroscience laboratory is a course in which students will be introduced to the methods of cognitive neuroscience, including event-related potentials and functional magnetic resonance imaging. Students will design and carry out simple cognitive experiments to examine issues of hemispheric laterality. The objective is for the student to obtain a better understanding of research methods and manuscript preparation in Cognitive Neuroscience.

Evaluation/Grading: Your grade will be determined by the number of points you accrue based on a total of 200 points. The assignments and breakdown of points is presented below, and more information on the assignments will be provided in class.

Activity/assignment	Relative percent	Points
Practical Exam	20%	40
Introduction/Methods	20%	40
Results/Discussion	20%	40
Lab Notebook	15%	30
Completed Manuscript	25%	50
	100%	200

Letter grades will be based on the total points you obtain from the assignments/quizzes. Of the total points possible, students that accrue 100-90% will be graded as A, 89-80% as B, 79-70% as C, 69-60% as D, and 59-0% as F. Plus and minus grades will be assigned based on the final class distribution. I reserve the right to curve the grading scale based on class performance or any unusual circumstances that may arise during the semester.

Attendance: Late arrivals will result in a 2 point reduction in your point total and an unexcused absence will result in a 10 point reduction of your point total.

Honor Code: This course strictly adheres to the standards of conduct set forth in the Tulane University Honor Code, which can be found here: <http://provost.tulane.edu/HonorCode.htm>
If you have concerns, it is better to ask questions before you begin as opposed to after the work is complete.

Special Instructional Needs: If you have any special needs or require accommodations by the Center for Educational Resources and Counseling (ERC), please bring this to my attention during the first week of the semester. Please bring all required paperwork to me no later than one week prior to an exam or assignment and note that accommodations do not apply retroactively (ERC policy).

Attendance and Classroom Etiquette: Attendance is expected and required. Students should arrive on time and conduct themselves in a demeanor appropriate to an academic environment. Feel free to ask relevant questions during lab and the use of laptops is allowed as space permits. Students that are habitually late or disruptive will be counseled and may be asked to withdraw from the course.

Extra Credit: Extra credit is not available except in the rarest of circumstances. To be considered for extra credit, a student must have shown sufficient prior involvement in the course and present a justification that I believe is viable and worthy of extra credit.

The Academic Experience: In regards to your time spent in college, my feelings are very similar to the quote below by the famous psychologist, William James. To a large extent, college is what you make of it. The more you put into it, the more you will receive from it. As someone who speaks from the experience of many years as a student, I urge you to give your best effort in this and all your courses. Please feel free to see me if you are having difficulty with this or any other course.

“Life is what you make it.” William James (1842-1910)

Tentative Cognitive Neuroscience Laboratory Schedule

<u>DATE</u>	<u>ACTIVITY</u>
January 25	Introduction: scientific ethics, experimental design and analysis
February 1	Neuroanatomy: surface features
February 8	Neuroanatomy: sub-cortical structures
February 15	Neuroanatomy Practical Exam (20%)
February 22	Manuscript writing: Introduction and methods Experimental hypothesis and methods development for project
March 1	Experimental hypothesis and methods development for project (continued)
March 8	Experimental hypothesis and methods development for project (continued) <i>Hypothesis statement, brief methodology and 3 supporting articles due (not graded)</i>
March 15	Introduction and Method Sections Due (20%) Data collection for Project, record keeping, analysis
March 22	Spring Break
March 29	Data collection for project, record keeping, analysis (continued) <i>Introduction and Methods returned</i>
April 5	Data collection for project, record keeping, analysis (continued) <i>ANOVA Summary Table due (not graded)</i>
April 12	Results and Discussion Sections Due (20%) MRI overview and methods
April 19	Lab Notebook Due (15%) Event Related Potentials overview and demonstration <i>Results and Discussion returned</i>
April 26	Final Manuscript Due (25%)