

Course Syllabus
NEUROSCIENCE APPLIED: DESIGNING AND COMMUNICATING THEORY AND RESEARCH
Mini Term I: June 26th – July 7th, 2017

Course #: 360.100.71
Professor: Dr. Mónica López-González
Class meetings: MTWThF 1:00PM-2:30PM

Course credit: 1
Email: mlopezgonzalez@jhu.edu
Classroom: tba

1 Course Description

Science is about theory, research, data and storytelling. This course focuses on Neuroscience and its related topics –Cognitive Science, Psychology, Biology, Computer Science, Philosophy of Mind and Anthropology– as they can be applied outside of the traditional laboratory. Through research projects on a topic of their choice, students will experience hands-on creative problem solving through the scientific process and create and write their own research papers and scientific visualizations. It is strongly recommended to take this course in conjunction with the course *Mind, Brain, and Beauty* or any other course in the brain, psychological and behavioral sciences.

2 ASSIGNMENTS

Readings: There will be one assigned reading for this course. Book to be announced.

In-class participation: The class will run as a hands-on workshop and participation to discuss ideas, concepts, research techniques, and visual interpretations is strongly encouraged. Attendance to class is mandatory.

Research paper:

This is an intense research project creating, developing, and writing-based course. You will write a research paper on a topic of your choice integrating theories, experimental methodologies, data, and/or concepts from Neuroscience and its related topics. The expectations for this project assignment will be outlined in class and you will work on your project throughout the course's two weeks. While you are allowed, and encouraged, to discuss the material with other members of the class, *you must write and express your own ideas, arguments, hypotheses, experiments, etc. in your own words and visualizations.* We will discuss how to properly cite references. Your final paper must be written on a word processor; handwritten work will **not** be accepted. You will present your project on the last day of class.

Grades: Grades will be determined by the following breakdown:

Class attendance, preparation, and in-class verbal participation (35%)

Final research project (50%)

Final research project in-class presentation (15%)