



## COURSES

The versatility of our program allows you to truly tailor the curriculum to your interests and professional goals. Here's a sample of what you can expect to learn and do:

### **Behavioral Neuroscience**

This course is an investigation of the biological basis of behavior. The focus is on neural and hormonal regulation and control of behavior.

### **Psychopharmacology**

This course covers principles of pharmacology and a detailed study of therapeutic and abused drug classes that affect psychological functioning and behavior. Mechanisms of action, neurobiological bases, clinical applications, tolerance and dependence, side effects, and abuse potentials are considered.

### **Cellular Biophysics**

This course focuses on selected physiological processes occurring in biological cells, such as cell homeostasis or action potential in neurons. Although these are biological phenomena, their analysis is inherently multidisciplinary, involving both physical and chemical principles. The course also introduces students to basic mathematical modeling of biophysical phenomena.

### **Biomechanics & Neural Control**

This course is an introduction to biomechanics and the underlying neuromuscular control. In the process, students will learn theoretical and numerical techniques to model and analyze biomechanical systems and simple neural circuits. Every student completes a numerical research project on terrestrial locomotion.

**INTERESTED IN** psychology and neuroscience? You've got some nerve. But we need people like you – most new psychological research is linked to behavioral or physiological outcomes. And, according to the Bureau of Labor Statistics, the “medical scientists” career – which includes budding psycho-neuroscientists like you – expects a job outlook of +8% from 2014-2024. That's where we come in. Loyola's neuroscience concentration prepares you to grow with the field's contemporary trends – and to shape those trends. You'll take specific psychology, physics, and computer sciences electives in place of the psychology major's usual electives, preparing you for graduate school, research and industry work, or even medical school.

## *Possible Careers:*

- Clinical psychologist
- Research Scientist
- Neuropsychologist
- Neuroimaging Technologist

**ATTENDING LOYOLA** means being in the heart of New Orleans. Our campus is located in the city's historic Uptown neighborhood, just a short drive from the Central Business District, the city's hub of innovation, creativity, and strategic thinking. You'll learn to hone your talents in the city named #1 new brainpower city in America and #1 best city in the U.S. for creative professionals.