INTEGRATIVE NEUROSCIENCE

Neuroscience is one of the most exciting, interesting, and integrative fields in science today. Technological advances of the last 20 years have led to a dramatic rise in neuroscience research across multiple domains, including biology, chemistry, psychology, computer science, and physics, as well as seemingly unrelated fields such as economics.

A primary aim of the integrative neuroscience major is to engage Fordham students in this exciting and rapidly advancing field so that they become competitive candidates for post graduate education in the neuroscience field. A unique aspect of the integrative neuroscience major is the presence of three tracks (cell and molecular, cognitive, and systems and computational), each focusing on a specific aspect of neuroscience. The design of the major also insures that students have exposure to each of the disciplines so that their work can be informed by multiple perspectives.

Students majoring in integrative neuroscience may not double major in biology, natural science, computer science, environmental science, or psychology. Students majoring in integrative neuroscience may choose any available minor provided that they fulfill the requirements stipulated by the department or program offering the minor and have approval of the Dean’s Office, but may not use course credits of the major to fulfill requirements for the minor.

Each student interested in the integrative neuroscience major will be evaluated at the end of their third semester. Students are required to have a science GPA of 3.0 or above with the lowest grade acceptable being a C- for admission to the program. At the time of declaring their major, the student should have taken a minimum of three Foundation courses.

For more information
Visit the Integrative Neuroscience program web page.

Programs
• Integrative Neuroscience Major

Courses
Our Courses
NEUR 3999. TUTORIAL. (3 Credits)
NEUR 4900. NEUROSCIENCE CAPSTONE SEMINAR. (1 Credit)
Senior-level integrative Neuroscience majors from all three tracks meet weekly in the spring semester to share and discuss the results of their independent research. Students will be required to give a minimum of two presentations of their research, once in first half of the semester and again in the second half. The content of this course will build upon what students learned in NEUR 4999 the previous semester.

NEUR 4999. NEUROSCIENCE RESEARCH. (4 Credits)
Independent laboratory research or meta analysis of published work beginning no later than the summer/fall of the senior year. The project will be on a specific neuroscience topic and mentored under the supervision of a faculty member. Grade and credits are given only upon completion of a final research paper or poster that integrates the project findings with previously published studies in neuroscience.