Welcome to Integrative Neuroscience!

**Major Overview:**

Integrative neuroscience is the study of the biology of behavior. Since the production and regulation of behavior is largely the job of the nervous system, neuroscientists are interested in studying the brain and how it works. Integrative neuroscience is therefore a multidisciplinary field.

At Binghamton University, students who major in integrative neuroscience take a variety of courses across a number of departments. Most of the core courses are taken in the departments of psychology and biological sciences. Distribution requirements are derived from the mathematics, chemistry and physics departments; and students can select electives from departments such as anthropology, philosophy and history.

**Courses:**

First semester:

- PSYC 111: General Psychology
- BIOL 117: Intro to Organismal and Population Biology or BIOL 118: Intro to Cell and Molecular Biology
- CHEM 107: Intro to Chem Principles I or CHEM 111: Chemical Principles

Second semester:

- PSYC 243: Statistical Analysis and Design
- BIOL 117 or BIOL 118
- CHEM 108: Intro to Chem Principles II

*It is recommended that students take no more than two science or math courses during their first semester.

**Post-Graduation:**

Majoring in integrative neuroscience provides a solid foundation for graduate study in a variety of disciplines, such as neuroscience, anatomy, physiology and pharmacology. Additionally, many students find that Binghamton University’s
integrative neuroscience program provides excellent preparation for medical or dental school.

A degree in integrative neuroscience can lead to a career in medicine/health, education, business and administration. Examples of recent alumni jobs include: pediatric hematology oncology chief fellow (Memorial Sloan Kettering Cancer Center), physical therapist, radiologist, registered dietician, pharmaceutical representative, college professor, lab manager, program manager (Levin Institute), attorney and DNA analyst.

Click alumni to view a list of alumni careers. [http://www.binghamton.edu/integrative-neuroscience/careers.html]

Additional Resources:

About integrative neuroscience  [http://www.binghamton.edu/integrative-neuroscience/index.html]


For student organizations and social involvement options refer to:

Neuroscience Club [https://sites.google.com/site/bingneuroscienceclub/]

Other student groups [http://binghamtonsa.org/executive-vp/current-student-groups/]

Research Areas:

Outstanding students in integrative neuroscience are encouraged to participate in the honors program. Participation requires the preparation of an honors thesis that consists of a proposal, data collection, written analysis and an oral defense of the final thesis. Successful completion of the honors program results in graduation with distinguished independent work in Integrative Neuroscience.

For more information about the Honors Program, visit Honors Program. [http://www.binghamton.edu/integrative-neuroscience/honors-program.html]

Thank you!

For more information contact the Integrative Neuroscience
Program at:
neuro@binghamton.edu
(607) 777-4100