

Basic Features of the Program

- Students select a major of their choice among the three departments that participate in the concentration. These departments are: Biology, Chemistry and Psychology. Course requirements for the concentration are dependent upon a student's major.
- A special notation is indicated on the student's official records and transcript indicating the area of concentration.
- A unique feature provided by the program is a laboratory independent research project in neuroscience (PS 497N). The project may be carried out in any of the three participating departments. The project may be supervised by any faculty member, but must have approval of the coordinator of the concentration.
- Students are strongly advised to have some background in statistics and computer science. Consultation should be made with the student's advisor as to which courses are most appropriate.
- A GPA of 2.5 in BL 155-158 and CH 141-144 is required for admission into the program.

Neuroscience Concentration

at

John Carroll University

The Neuroscience Concentration is intended for Biology, Chemistry, and Psychology majors who desire an interdisciplinary approach to the study of physiology, biochemistry, and behavior of higher organisms..

Objective of the Program

- To encourage the convergence of biology, chemistry, and psychology in the study of higher animals.
- To give the undergraduate student competence in physiological and behavioral methods of investigation of the nervous system.

Coordinator of Concentration

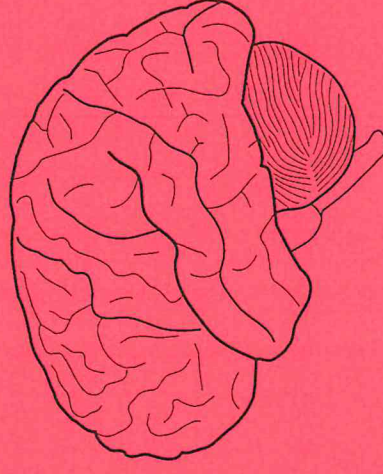
Helen M. Murphy, Ph.D.
Department of Psychology

Associate Coordinator

Cyrilla H. Wideman, Ph.D.
Department of Biology

#John Carroll
UNIVERSITY

Interdisciplinary Neuroscience Concentration



Required Courses for the Biology Major

BL 155-158	Principles of Biology I/II <i>(Lectures and Labs)</i>
BL 360/360L	Human Physiology <i>(Lecture and Lab)</i>
CH 141-144	General Chemistry I/II <i>(Lectures and Labs)</i>
CH 221-224	Organic Chemistry I/II <i>(Lectures and Labs)</i>
CH 431	General Biochemistry
BL 475	Endocrinology
	OR
CH 435/436	Biochemistry I/II
PS 326	Psychobiology
PS 426	Psychopharmacology
PS 497N	Advanced Research Topics in Neuroscience <i>(GPA of 3.0 required)</i>

Required Courses for the Chemistry Major

BL 155-158	Principles of Biology I/II <i>(Lectures and Labs)</i>
BL 360/360L	Human Physiology <i>(Lecture and Lab)</i>
CH 141-144	General Chemistry I/II <i>(Lectures and Labs)</i>
CH 221-224	Organic Chemistry I/II <i>(Lectures and Labs)</i>
CH 435/436	Biochemistry I/II
PS 326	Psychobiology
PS 426	Psychopharmacology
PS 497N	Advanced Research Topics in Neuroscience <i>(GPA of 3.0 required)</i>

Required Courses for the Psychology Major

BL 155-158	Principles of Biology I/II <i>(Lectures and Labs)</i>
BL 360/360L	Human Physiology <i>(Lecture and Lab)</i>
CH 141-144	General Chemistry I/II <i>(Lectures and Labs)</i>
CH 221-224	Organic Chemistry I/II <i>(Lectures and Labs)</i>
PS 101	General Psychology
PS 326	Psychobiology
PS 386	Mind, Brain and Behavior
PS 426	Psychopharmacology
PS 497N	Advanced Research Topics in Neuroscience <i>(GPA of 3.0 required)</i>