

NEUROSCIENCE (NSC)

NSC 1101 New Student Seminar in Psychology and Neuroscience (1)

Cross-listed as PSY 1101
See PSY 1101 for course information.

NSC 1106 Introduction to Neuroscience Laboratory (1)

Pre-requisite(s): NSC 1306 or concurrent enrollment
Laboratory experiments illustrating procedures in neuroanatomy, behavioral neuroscience, animal learning and behavior, and human sensation and perception.

NSC 1306 Introduction to Neuroscience (3)

An introduction to the biological bases of human and animal behavior. Emphasis is placed upon neuroanatomical, neurophysiological, and behavioral methodologies which contribute to an understanding of brain-behavior relationships.

NSC 1V9R Research (3)

Pre-requisite(s): Consent of the instructor
Undergraduate research undertaken with the supervision of a faculty member. May be taken for a maximum of 6 hours.

NSC 2306 Research Methods in Neuroscience (3)

Pre-requisite(s): NSC 1306 with a grade of B or better
An introduction to fundamental principles, techniques, and procedures that underlie neuroscience research.

NSC 2V9R Research (3)

Pre-requisite(s): Consent of the instructor
Undergraduate research undertaken with the supervision of a faculty member. May be taken for a maximum of 6 hours.

NSC 3101 Peer Leadership and Mentoring (1)

Cross-listed as PSY 3101
See PSY 3101 for course information.

NSC 3111 Laboratory in Cognition (1)

Cross-listed as PSY 3111
Pre-requisite(s): NSC 3311 or concurrent enrollment
Laboratory experiments illustrating methods and procedures in cognitive psychology.

NSC 3120 Laboratory in Learning and Behavior (1)

Cross-listed as PSY 3120
Pre-requisite(s): NSC 3320 or PSY 3320 or concurrent enrollment
Laboratory experiments illustrating methods and procedures in learning and behavior.

NSC 3123 Laboratory in Sensation and Perception (1)

Cross-listed as PSY 3123
Pre-requisite(s): NSC 3323 or PSY 3323 or concurrent enrollment
Laboratory experiments illustrating methods and procedures in sensation and perception.

NSC 3311 Cognition (3)

Cross-listed as PSY 3311
Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321; or consent of instructor
Introduction to the structures and processes involved in human cognition, including thinking, problem solving, language, attention, and memory.

NSC 3320 Learning and Behavior (3)

Cross-listed as PSY 3320
Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321 or consent of instructor
An examination of human and animal learning and behavior within a nature-nurture framework.

NSC 3323 Sensation and Perception (3)

Cross-listed as PSY 3323
Pre-requisite(s): NSC 1106-1306, and either PSY 2402 or MTH 1321 or consent of instructor
An introduction to the anatomical, physiological, motivational, and cognitive factors which determine conscious sensory and perceptual experience.

NSC 3370 Affective Neuroscience (3)

Cross-listed as PSY 3370
Pre-requisite(s): NSC 1306 and 1106
Explores the underlying neural circuits important for normal and abnormal emotional behavior and experience. Focus on neuroimaging studies of human disorders for which there is a critical mass of data regarding the neural underpinnings of psychopathology.

NSC 3375 Sleep (3)

Cross-listed as PSY 3375
See PSY 3375 for course information.

NSC 3381 Neuroscience and the Law (3)

Pre-requisite(s): NSC 1306 and (PSY 2405 or NSC 2306)
Examines neuroscience methods and research related to criminal and civil law and society at large, providing a broad overview of the major topics in the area.

NSC 3390 Developmental Neuroscience (3)

Pre-requisite(s): NSC 2306 or PSY 2405 and instructor approval
An overview of the molecular and cellular processes involved in nervous system development, including neural proliferation, synaptogenesis, and neurodevelopmental disorders.

NSC 3V9R Research (3)

Pre-requisite(s): Consent of the instructor
Undergraduate research undertaken with the supervision of a faculty member. May be taken for a maximum of 6 hours.

NSC 4119 Laboratory in Clinical Neuroscience (1)

Cross-listed as PSY 4119
Pre-requisite(s): Credit or concurrent enrollment in either NSC 4319 or PSY 4319
Laboratory experiments illustrating methods and procedures in clinical neuroscience.

NSC 4130 Advanced Laboratory in Neural Science (1)

Cross-listed as PSY 4130
Pre-requisite(s): NSC/PSY 4330 or concurrent enrollment
Laboratory experiments illustrating methods and procedures in Behavioral Neuroscience.

NSC 4312 Behavioral Medicine (3)

Cross-listed as PSY 4312
Pre-requisite(s): NSC 1106 and 1306 or consent of instructor
Topics include the role of mind, brain, and behavior in health, disease and wellness; the history, philosophy, and current status of health care systems; physiological and behavioral analyses of stress; psychoneuroimmunology; behavioral factors in cardiovascular disease, cancer, drug abuse, and weight management.

NSC 4317 Literature of Behavioral Neuroscience (3)

Cross-listed as PSY 4317

Pre-requisite(s): NSC 1106-1306 and PSY 2402 or consent of instructor

An intensive introduction to the scientific literature in behavioral neuroscience. Students will be exposed to the contemporary literature through an examination of fundamental contributions in several areas. Preparation of a serious paper in a specific area of current research interest is required.

NSC 4319 Clinical Neuroscience (3)

Cross-listed as PSY 4319

Pre-requisite(s): NSC 1106 and 1306, and either PSY 2405 or MTH 1321 or consent of instructor

A survey of current neuroscientific contributions to the understanding of the etiology of various mental disorders. The course covers basic principles of neural science followed by an examination of motivation and emotions within a neuroscience framework.

NSC 4324 Research on the Senses and Perception (3)

Cross-listed as PSY 4324

Pre-requisite(s): NSC 1106-1306 and PSY 2402 or consent of instructor

A study of individual problems in perception through directed reading, independent research, and/or laboratory work.

NSC 4330 Advanced Principles of Neural Science (3)

Cross-listed as PSY 4330

Pre-requisite(s): NSC 1106-1306 and PSY 1305, or consent of instructor

A study of the structure and function of the human nervous system as related to behavior.

NSC 4356 Neuropharmacology (3)

Pre-requisite(s): NSC 1306

The pharmacology of major drugs that work primarily on the nervous system, with an emphasis on pharmacodynamics (receptor subtypes, locations, and functions).

NSC 4371 Advanced Research in Neuroscience (3)

Pre-requisite(s): Consent of instructor

An in-depth laboratory research experience in neuroscience as supervised by a faculty mentor.

NSC 4V96 Special Topics in Neuroscience (1-4)

Pre-requisite(s): Consent of instructor

May be repeated once with change of topic.

NSC 4V9R Research (3)

Pre-requisite(s): Consent of the instructor

Undergraduate research undertaken with the supervision of a faculty member. May be taken for a maximum of 6 hours.