

Natural Science—NSC

- 863 Earth Science for Teachers**
Summer. 2 credits. P:NM: Secondary certification in chemistry or physics or earth science or physical science, 3 years teaching experience. R: Approval of college.

Intensive lecture and laboratory study of basic earth sciences from a modern viewpoint.

- 864 Interdisciplinary Seminar in Physical Science**
Summer. 2 credits. P:NM: (NSC 860) R: Approval of college.

Interrelationships of the physical sciences. The role of society in regulation of science to technology transfer.

- 870 Teaching College Science**
Spring. 2 credits. R: One year of graduate study in a biological or physical science. Approval of college.

Philosophies of education. Ethnic, gender, and cultural issues. Designing a laboratory course. Problems of class size. Instructional technologies. Assessment and evaluation.

- 889 Research for Inservice Teachers**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to inservice K-12 teachers with baccalaureate degrees.

Research in faculty laboratories. Oral and written presentations.

- 899 Master's Thesis Research**
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to master's students in the College of Natural Science. Approval of college.

Master's thesis research.

- 901 Frontiers in Biological Science**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Secondary certification in chemistry or physics or earth science or physical science or biology, 3 years teaching experience. Approval of college.

Weekend workshops with research faculty exploring background and latest findings in their area of research.

- 902 Frontiers in Physical Science**
Fall, Spring. 1 to 4 credits. A student may earn a maximum of 40 credits in all enrollments for this course. R: Open only to students with secondary teacher certification in chemistry or physics or earth science or physical science or biology and 3 years of teaching experience. Approval of college.

Weekend workshops with research faculty exploring background and latest findings in their area of research.

NEUROLOGY AND OPHTHALMOLOGY NOP

Department of Neurology and Ophthalmology College of Human Medicine College of Osteopathic Medicine

- 552 Medical Neuroscience**
Spring. 4(3-2) Interdepartmental with Physiology; Radiology; Human Anatomy. R: Graduate-professional students in colleges of Human Medicine and Osteopathic Medicine. SA: ANT 552

Correlation of normal structure and function of the human nervous system with clinical testing, classical lesions, and common diseases.

- 590 Special Topics in Clinical Neuroscience**
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

Work under the direction of a faculty member on an experimental, theoretical or applied problem in clinical neuroscience or neurology.

- 617 Neurology Clerkship**
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P:NM: (MED 608) R: Open only to graduate-professional students in College of Human Medicine. SA: MED 617

Office and inpatient experience. Evaluation and management of neurological disease.

- 620 Directed Studies**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to juniors or seniors in the College of Osteopathic Medicine. Completion of Semester 6 in the graduate-professional program.

Study in general or specialty neurology and ophthalmology.

- 656 Neurology Clerkship**
Fall, Spring, Summer. 2 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate-professional students in the College of Osteopathic Medicine upon completion of Units I and II. SA: PMR 656

Clinical exposure in neurology. Program structure developed to achieve proficiency in motor skills, aptitudes; comprehension of concepts and principles; patient evaluation, diagnosis, management, and therapy.

NEUROSCIENCE NEU

College of Natural Science

- 800 Neuroscience Research Forum**
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 8 credits in all enrollments for this course. RB: Bachelor's degree in neuroscience, biological or psychological science, or related area.

Readings, presentations, and discussions of research literature in neuroscience. Professional development.

- 804 Molecular and Developmental Neurobiology**
Fall. 3(3-0) Interdepartmental with Pharmacology and Toxicology; Psychology; Pathology; Zoology. RB: Bachelor's degree in a Biological Science or Psychology. R: Open only to graduate students in the Neuroscience major.

Nervous system specific gene transcription and translation. Maturation, degeneration, plasticity and repair in the nervous system.

- 806 Advanced Neuroscience Techniques Laboratory**
Summer. 3(0-9) Interdepartmental with Psychology; Pharmacology and Toxicology; Radiology; Physical Medicine and Rehabilitation. P:M: (NEU 804 or concurrently) P:NM: (PHM 827 and ANT 839 and PSY 811) R: Open only to doctoral students in the Neuroscience major.

Methods of neuroscience research and the underlying principles on which these methods are based.

- 811 Advanced Behavioral Neuroscience**
Spring. 3(3-0) Interdepartmental with Psychology. Administered by Department of Psychology. P:NM: (PSY 411) approval of department. R: Open only to graduate students in the Psychology and Neuroscience major.

Biological mechanisms involved in learning and memory, motivated behaviors, biological rhythms, and psychopathologies.

- 827 Physiology and Pharmacology of Excitable Cells**
Fall. 4(4-0) Interdepartmental with Pharmacology and Toxicology; Physiology; Zoology. Administered by Department of Pharmacology and Toxicology. RB: (PSL 431 or PSL 432 or BMB 401 or BMB 461 or ZOL 402)

Function of neurons and muscle at the cellular level: membrane biophysics and potentials, synaptic transmission, sensory nervous system function.

- 890 Independent Study in Neuroscience**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: Bachelor's degree in neuroscience, biology, psychology, or related area.

Supervised student research on a specialized research topic in basic or clinical neuroscience.

- 999 Doctoral Dissertation Research**
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course.

Doctoral dissertation research.

NURSING NUR

College of Nursing

- 202 Introduction to Nursing Practice I**
Fall. 3(2-3) R: Open only to students in the College of Nursing except students in PreNursing and Registered Nurses.
- Theoretical concepts of nursing necessary for professional practice. Assessment, interpersonal communication, documentation and decision-making.