NRSC - Neuroscience

Courses

NRSC 277/VIBS 277 Introduction to Neuroscience
Credits 3. 3 Lecture Hours.
Neuroscience from the molecular to system levels; fundamental principles and knowledge of neuroscience; current research information on neuroscience.
Prerequisites: Freshman or sophomore classification and approval of instructor.
Cross Listing: VIBS 277/NRSC 277.

NRSC 289 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of neuroscience. May be repeated for credit.
Prerequisite: Approval of instructor.

NRSC 311/PSYC 311 Comparative Psychology
Credits 3. 3 Lecture Hours.
Survey of problems, principles, and methods of animal psychology; animal learning, motivation discriminative processes, and abnormal, social, and instinctual behaviors.
Prerequisites: PSYC 107; PSYC 203 and 204 or junior or senior classification.
Cross Listing: PSYC 311/NRSC 311.

NRSC 320/PSYC 320 Sensation-Perception
Credits 3. 3 Lecture Hours.
Review of sensory physiology, sensory and perceptual phenomena and the major perceptual theories; current research in the field.
Prerequisites: PSYC 107; PSYC 203 and PSYC 204 or junior or senior classification.
Cross Listing: PSYC 320/NRSC 320.

NRSC 331/PSYC 331 Social Neuroscience
Credits 3. 3 Lecture Hours.
Integration of biological and psychological explanations of social behavior; recent research and theories in social neuroscience; emotion, motivation, aggression, face processing, empathy, social cognition, and social relationships.
Prerequisites: PSYC 107 or approval of instructor; junior or senior classification.
Cross Listing: PSYC 331/NRSC 331.

NRSC 332/PSYC 332 Neuroscience of Learning and Memory
Credits 3. 3 Lecture Hours.
Brain mechanisms of learning and memory from molecular to behavioral levels; synaptic plasticity, model systems, multiple memory systems, diseases of learning and memory.
Prerequisites: PSYC 107 or approval of instructor; junior or senior classification.
Cross Listing: PSYC 332/NRSC 332.

NRSC 333/PSYC 333 Biology of Psychological Disorders
Credits 3. 3 Lecture Hours.
Neurobiology and clinical explanation of molecular mechanisms underlying psychiatric disorders and their drug treatments; depression and bipolar, anxiety disorders, mood disorders, psychosis and schizophrenia.
Prerequisites: PSYC 107, PSYC 335/NRSC 335 or one year of biology; junior or senior classification.
Cross Listing: PSYC 333/NRSC 333.

NRSC 335/PSYC 335 Physiological Psychology
Credits 3. 3 Lecture Hours.
Physiological bases of sensation, motor functions, emotion motivation, and complex psychological processes.
Prerequisites: 6 hours of biology; PSYC 203 and PSYC 204 or junior or senior classification.
Cross Listing: PSYC 335/NRSC 335.

NRSC 336/PSYC 336 Drugs and Behavior
Credits 3. 3 Lecture Hours.
Physiological, pharmacological and behavioral effects of psychoactive drugs, including short-term and long-term effects of psychoactive drugs, properties of addictive drugs, etiology of addiction, and treatments of drug addiction and withdrawal.
Prerequisites: PSYC 335/NRSC 335 or NRSC 335/PSYC 335; junior or senior classification.
Cross Listing: PSYC 336/NRSC 336.

NRSC 340/PSYC 340 Psychology of Learning
Credits 3. 3 Lecture Hours.
Survey of significant concepts, experimental methods and principles of learning.
Prerequisites: PSYC 107 or INST 301; PSYC 203 and PSYC 204 or junior or senior classification.

NRSC 360/PSYC 360 Health Psychology and Behavioral Medicine
Credits 3. 3 Lecture Hours.
Survey of health psychology emphasizing behavioral and lifestyle factors in health and illness, prevention and modification of health-compromising behaviors, health care utilization, and psychological management of chronic disorders and terminal illness.
Prerequisite: PSYC 107.
Cross Listing: PSYC 360/NRSC 360.

NRSC 401/VIBS 401 Developmental Neurotoxicology
Credits 2. 2 Lecture Hours.
Effects of exposure to toxic substances on the developing nervous system; content to include mechanisms of toxicity of substances potentially devastating to the developing nervous system including lead, mercury and other heavy metals, alcohol, nicotine (smoking), pesticides, flame retardants and others.
Prerequisite: Junior or senior classification.
Cross Listing: VIBS 401.

NRSC 407/VIBS 407 Core Ideas in Neuroscience
Credit 1. 1 Lecture Hour.
General overview of selected core ideas across the full spectrum of neuroscience.
Prerequisite: Junior or senior classification; background in science courses recommended.
Cross Listing: VIBS 407/NRSC 407.

NRSC 434/BIOL 434 Regulatory and Behavioral Neuroscience
Credits 3. 3 Lecture Hours.
Bioelectricity, nerve cell functions, brain functions; physiologic basis of behavior.
Prerequisites: BIOL 319 or BIOL 388.
Cross Listing: BIOL 434/NRSC 434.
NRSC 450/VIBS 450 Mammalian Functional Neuroanatomy
Credits 4. 3 Lecture Hours. 2 Lab Hours.
Functional morphology of the domestic animal and human brain using
gross specimens, microscopic sections, interactive computer-, DVD-, and
video-assisted instructional programs supplemented with clinical case
studies.
Prerequisites: Junior or senior classification; BIMS, biology, biochemistry,
or psychology majors, or neuroscience minors with overall 3.5 TAMU
GPA; or approval of instructor.
Cross Listing: VIBS 450/NRSC 450.

NRSC 485 Directed Studies
Credits 1 to 3. 1 to 3 Other Hours.
Directed readings or research problems in selected areas designed to
supplement existing course offerings. Individual report required.
Prerequisite: Approval of instructor.

NRSC 489 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours.
Selected topics in an identified area of neuroscience.
May be repeated for credit.
Prerequisite: Approval of instructor.

NRSC 491 Research
Credits 1 to 4. 1 to 4 Other Hours.
Research conducted under the direction of a faculty member in
neuroscience. May be repeated 3 times for credit.
Prerequisites: Junior or senior classification and approval of instructor.