

New Course - Fall 2012

Ch782-NEUROSCIENCE

Neuroscience is the multidisciplinary study of how nerve and associated cells are organized into functional circuits that process information and mediate behavior. In this course the cellular, molecular mechanisms of neuronal electrical signaling, establishment of synapses, neurotransmitters, development of neural networks, neuronal plasticity, sensory perception, coding and storage of information will be covered. Development of the nervous system, degeneration, regeneration, autonomic and endocrine integration of cellular, molecular, epigenetic factors that regulate learning, memory and behaviors in biological systems will be discussed. Current cell biology and neuroimaging techniques to study the function of the nervous system will be reviewed. *Friday, 6:15-8:45pm*

Prerequisite: Ch281-Biology & Biotechnology, Ch381-Cell Biology or equivalent

For further information please contact:

Prof. Nuran M. Kumbaraci

nkumbara@stevens.edu

Tel: 201-216-5554

Department of Chemistry, Chemical Biology and Biomedical Engineering
STEVENS Institute of Technology, Hoboken, NJ 07030

