

# Biology

## Biology Classes

### BIO 560 : Advanced Human Pathophysiology

Concepts of normal with an emphasis on abnormal physiology covering homeostasis and the interrelationships between various organs. Course includes discussion of cell physiology, electrolyte balance, blood composition, immune responses, hormones, muscle, synapses, the cardiovascular, renal, respiratory, endocrine, nervous, and digestive systems. Common diseases in each will be discussed. Prerequisite: At least two semesters of undergraduate Biology.

### BIO 584 : Neurobiology

This course will focus on the central nervous system, its cell types, functional implications of cellular connections in the cortex, theories for sleep, central mechanisms of pain, neural coding of sensation, learning and memory, intra hemispheric integration and the segregation of tasks, intracellular metabolism and physiological changes associated with various mental states, inherited disorders affecting the CNS, and biochemical theories of mental disorders.

Portions of this course will be delivered in an online format.