We will explore the physiological and biomechanical mechanisms underlying movement in animals.

We will examine a range of behaviors such as feeding, swimming, flying, running, and vocalization from a diversity of animal species to explore general phenomena and key concepts.

Topics include:
- Activation, contraction and metabolism of muscles
- Physiology of muscle activation by the central nervous system
- Mechanisms of control and adjustment
- Sensory-motor integration
- Forces, work, and power of movements
- Modulation and stereotypy of movement
- Effects of body size and environment on speed and patterns of movement.

Reading of recent primary literature, writing assignments, and group discussion are the foundations of the course.

Permit Required.
Prerequisites: PCB 3712, BSC 2010/L, BSC2011/L, CHM 2045, CHM 2046.