

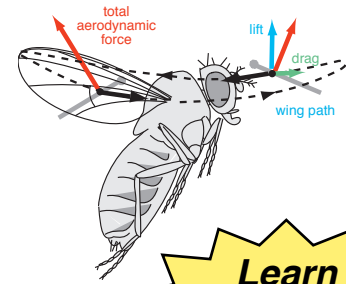
Physiology of Movement

BSC 4933/6932

Fall 2021

Dr. Stephen Deban

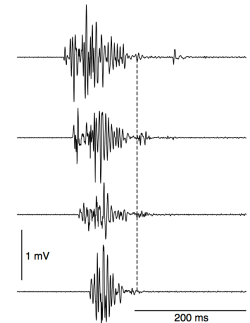
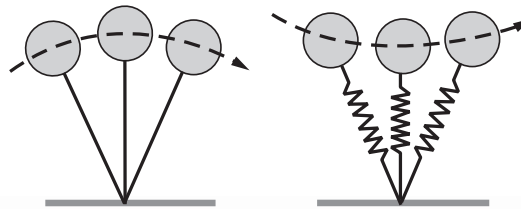
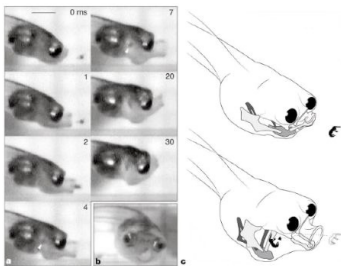
SCA 333
Tuesday & Thursday
2:00-3:15 PM



**Learn
How Animals
Move!**

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.

3 Credit Hours. Permit Required.

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

