



digested or otherwise manipulated and ultimately are converted into either body components or energy-rich molecules for body use.

D. Course Outcomes Assessment:

Will include:

1. Laboratory practical exams
2. Comprehensive final exam

E. Course Content:

Will include:

Content will include but not necessarily be limited to:

1. The cardiovascular system
  - a. the blood
  - b. the heart and cardiac regulation
  - c. the vascular system and cardiovascular dynamics
2. The respiratory system
  - a. anatomy of the upper and lower respiratory systems
  - b. respiratory physiology
3. The endocrine system and the stress response
4. The lymphatic system and immunity
5. The digestive system and metabolism
  - a. anatomy of the alimentary canal and accessory organs
  - b. physiology of digestion and assimilation
  - c. chemical processes of catabolism
6. The urinary system and fluid/electrolytes
  - a. anatomy of the kidney and associated structures
  - b. physiological processes of urine formation
  - c. water balance
  - d. electrolyte balance and blood buffering
7. The reproductive system and pregnancy
  - a. anatomy of the male and female reproductive structures
  - b. physiological regulation of gamete production
  - c. fertilization, implantation and embryological development

**\*Course has additional pre or co requisite(s)**