PHYL 142: Human Anatomy and Physiology II

The second semester of a two-semester course in human anatomy and physiology which includes a study of human embryology, gross anatomy, microanatomy, physiology, pathology, and homeostatic relationships. This course is intended for students entering health care or medically related fields such as nursing, physical therapy and medical technology. Formerly ZOOL 142.

Credits: 3  
Lecture Hours: 3  
Prerequisites:  
Credit for ZOOL 141 or equivalent preparation or consent of instructor.  
Program: Physiology  
Recommended:  
Registration in ZOOL 142L.

Student Learning Outcomes:  
- Describe how lipids, carbohydrates, proteins and nucleic acids are digested, assimilated, and catabolized to obtain energy and raw materials.  
- Describe the anatomy and function of the circulatory, lymphatic, endocrine, digestive, urinary, and reproductive systems and discuss how these systems maintain homeostasis in the human body.  
- Describe the link between the anatomy of human tissues and organs and their functions within the human body.  
- Discuss how negative feedback maintains homeostasis in the human body.  
- Explain how disease and disorders disrupt the homeostasis of each of the above body systems and discuss how common medical treatments and drugs are used to restore homeostasis.  
- Write a research paper on a disease affecting one of the body systems using primary and secondary scientific literature.