Bemidji State University

BIOL 3260: Medical Physiology

A. COURSE DESCRIPTION

   Credits: 4
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   Physiological and pathophysiological principles and control mechanisms of organ systems within humans. Lecture and laboratory. Prerequisites: BIOL 1211, BIOL 1212, BIOL 3250, and CHEM 3312.

B. COURSE EFFECTIVE DATES: 05/30/2007 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

   1. Introduction to Physiology; Homeostasis
   2. Chemical and Physical Principles
   3. Cellular Structure and Function
   4. Cellular Control Mechanisms
   5. Cellular Metabolism
   6. Nervous System
   7. Sensory Physiology
   8. Integumentary System
   9. Skeletal System
  10. Muscular System
  11. Cardiovascular System
  12. Lymphatic System
  13. Respiratory System
  14. Digestive System
  15. Urinary System
  16. Reproductive System
  17. Endocrine System
  18. Pathophysiology

D. LEARNING OUTCOMES (General)

   1. understand cellular, physiological, and chemical mechanisms of all body systems.
   2. develop a working vocabulary of medical physiological terminology.
   3. write one well-developed pathophysiological research paper using specific journal format.
   4. present one well-developed pathophysiological seminar to class.
   5. develop physiological research techniques used in laboratory projects.
   6. develop skills using physiological instruments used in laboratory projects.
E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted