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