

# 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