

I. COURSE INFORMATION

- A. Biology 265 Human Anatomy and Physiology II
- B. 4 credit hours
- C. Amerman, Erin. *Human Anatomy & Physiology*. 2nd ed. Pearson
- D. Prerequisites: Completion of BIO 102 Principles of Biology or BIO150 Biology I (Cellular) with a C grade or better
- E. KRSN: BIO 2030 Anatomy & Physiology with Lab

The learning outcomes and competencies detailed in this course outline or syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups project for this course as approved by the Kansas Board of Regents.

II. COURSE DESCRIPTION

This is an integrated lecture and laboratory course focusing on orientation, cardiovascular, blood, respiratory, lymphatic, nervous, special senses, endocrine, and reproductive systems. This course covers the macroscopic and microscopic structures and the chemical processes of involved cells, tissues, organs, and organ systems of the body. This is one semester of a two-semester course sequence. This course must be taken in addition to BIO 260 to be equivalent to BIO257. This course is an intermediate study designed primarily for pre-professional students in health-related fields.

III. LEARNING OUTCOMES

- A. Demonstrate measurable understanding of descriptive anatomical and directional terminology
- B. Demonstrate measurable understanding of the basic concept of homeostasis and how homeostatic mechanisms apply to body systems
- C. Demonstrate measurable understanding of basic chemistry and cellular structures and function
- D. Demonstrate measurable understanding of the basic tissues of the body, their location and functions with an emphasis on the following systems: cardiovascular, respiratory, lymphatic, nervous, endocrine, and reproductive systems
- E. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the endocrine system and explain the functional roles of their respective hormones in communication, control, and integration
- F. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the cardiovascular system and explain their functional roles in transport and hemodynamics
- G. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the respiratory system and explain their functional roles in breathing/ventilation and in the processes of external and internal respiration
- H. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the lymphatic system and explain their functional roles in fluid dynamics and immunity
- I. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the nervous system and explain their functional roles in communication, control, and integration
- J. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the eye and ear and explain their functional roles in vision, hearing and equilibrium
- K. Demonstrate measurable understanding of the major gross and microscopic anatomical components of the reproductive system and explain their functional roles in reproduction and inheritance

IV. MAJOR CONTENT AREAS

- A. Anatomical terminology
- B. Homeostasis
- C. Chemistry
- D. Cells
- E. Tissues
- F. Endocrine system

- G. Nervous system
- H. Cardiovascular system
- I. Respiratory system
- J. Lymphatic system
- K. Reproductive systems

V. ASSIGNMENTS (may include but are not limited to)

- A. Assignments
- B. Laboratory activities
- C. Quizzes
- D. Exams

VI. EVALUATION METHODS (may include but are not limited to)

- A. Exams
- B. Projects and lab exercises
- C. Assignments
- D. Quizzes and exams