

Alexandria Technical and Community College

BIOL 1417: Human Anatomy & Physiology I

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites:

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Corequisites: None

MnTC Goals: Goal 03 - Natural Science

This course meets Minnesota Transfer Curriculum (MnTC) goal area 3. This course provides the learner with an understanding, knowledge, and application skills needed in the area of anatomy and physiology. Students recognize and apply anatomical and medical terminology descriptions of cellular and tissue anatomy and physiology. Foundational skills are then directed toward gaining an understanding of the organs constituting the integumentary, skeletal, muscular, and nervous, systems. The normal structure and function of these organ systems are emphasized. Where appropriate, dissections, symptoms, laboratory signs and diagnosis of system pathology are used to illuminate normal processes. Prerequisite: College-level reading score on placement test or READ0900 (College Prep Reading).

B. COURSE EFFECTIVE DATES: 01/09/2007 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Anatomical Directional and Regional Terms
2. Autonomic Nervous Systems
3. Basic Microscopy and Histology
4. Central and Peripheral Nervous Systems
5. Gross and Microscopic Skeletal Anatomy and Physiology
6. Gross and Microscopic Skeletal Muscle Anatomy and Physiology
7. Integumentary System
8. Molecular and Cellular Anatomy and Physiology
9. Most content has accompanying Lab Component

D. LEARNING OUTCOMES (General)

1. The learner will gain an understanding of the normal structure and function of the central and peripheral nervous systems as well as special senses.
2. The learner will gain an understanding of the normal structure and function of the neuromuscular systems.
3. The learner will gain an understanding of the normal structure and function of the integumentary and skeletal systems.
4. The learner will gain an understanding of the perspectives and language of anatomy and apply these in discussions of the cellular and tissue level of anatomical organization.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

Goal 03 - Natural Science

1. Demonstrate understanding of scientific theories.
2. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
3. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted