

Alexandria Technical and Community College

BIOL 1419: Human Anatomy and Physiology II

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 2

OJT Hours/Week: *.*

Prerequisites:

This course requires the following prerequisite

BIOL 1417 - Human Anatomy & Physiology I

Corequisites: None

MnTC Goals: Goal 03 - Natural Science

This course meets Minnesota Transfer Curriculum (MnTC) goal area 3. This course provides the learner with understanding, knowledge, and application skills needed in the area of anatomy and physiology. Learners apply anatomical and medical terminology and an understanding of cellular and tissue anatomy and physiology toward gaining an understanding of the organs constituting respiratory, digestive, urinary, reproductive, endocrine, and lymphatic systems. The normal structure and function of these organ systems are emphasized. Lab experience is included. Dissections, symptoms, laboratory signs, and diagnosis of system pathology are used to illuminate normal processes where appropriate. Prerequisite: BIOL1417.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Blood Components, Chemistry and Clotting Mechanisms
2. Cardiovascular Anatomy and Physiology
3. Digestive System and Metabolism
4. Endocrine Anatomy and Physiology
5. Lymphatic and Immune Systems
6. Most content has an accompanying Lab Component
7. Renal System with Fluid, Electrolyte, and Acid/Base Balance
8. Reproductive System, Pregnancy, and Genetics
9. Respiratory Anatomy and Physiology

D. LEARNING OUTCOMES (General)

1. The learner will gain an understanding of fluid electrolyte balance, genetics and the reproductive system.
2. The learner will gain an understanding of the normal structure and function of the digestive and urinary systems.
3. The learner will gain an understanding of the normal structure and function of the lymphatic, immune and respiratory systems.
4. The learner will gain an understanding of the normal structure and function of the endocrine and cardiovascular systems.

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