

Syllabus

BIOS2250

HUMAN ANATOMY & PHYSIOLOGY I 2016

Committee Members:

Stuart Williams, Central Community College
No Representative, Little Priest Tribal College
Todd Templeton, Metropolitan Community College
Leah Christensen, Mid-Plains Community College
No Representative, Nebraska Indian College
Jennifer Judt, Northeast Community College
Rebecca Burt, Southeast Community College
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Jennifer Judt (Feb. 2017)

Facilitator: Jennifer Judt, Northeast Community College

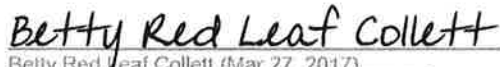
Date Reviewed: August 12, 2016

The Institution Agrees to the contents in this syllabus including course prefix, number, course description and other contents of this syllabus.


Deborah Brennan (Feb. 9, 2017)

Deb Brennan, Central Community College

Adopt


Betty Red Leaf Collett (Mar 27, 2017)

Betty Redleaf, Little Priest Tribal College

Decline


Thomas J McDonnell (Feb 16, 2017)

Tom McDonnell, Metropolitan Community College

Decline


Jody Tomanek (Feb 8, 2017)

Jody Tomanek, Mid-Plains Community College

Adopt


Leland Henke (Feb 15, 2017)

Mary Johnson, Nebraska Indian Community College

Adopt


John Blaylock (Feb 9, 2017)

John Blaylock, Northeast Community College

Adopt


Dennis Headrick (Feb 9, 2017)

Dennis Headrick, Southeast Community College

Adopt


Kim Kuster Dale (Feb 9, 2017)

Kim Dale, Western Nebraska Community College

Adopt

I. CATALOG DESCRIPTION

Course Number: BIOS2250

Course Title: Human Anatomy & Physiology I

Prerequisite(s): College General Biology (BIOS1010) or Department Approval.

Catalog Description: Introduction to the form and function of the human body. Including organization, basic chemistry, cells, tissues, skin, skeletal system, muscular system, nervous system and introduction special senses.

Credit Hours: 4 semester hours / 6 quarter hours

Contact Hours: 45 (lecture)/ 30 (lab)

II. COURSE OBJECTIVES AND COMPETENCIES

Course will:

1. Facilitate student exploration of the organization and biochemistry of the human body, from the cellular to the organismal level.
2. Compare and evaluate human tissues from human body.
3. Examine the integumentary system and accessory structures.
4. Explore the anatomy and physiology of the skeletal system.
5. Investigate the anatomy and physiology of the muscular system.
6. Discuss and summarize the anatomy and physiology of the nervous system, including an introduction to the special senses.
7. Provide hands-on laboratory learning opportunities that reinforce lecture content.

III. STUDENT LEARNING OUTCOMES

Students will:

1. Discuss the relationship between anatomy and physiology
2. Use terms of relative position, landmarks, and body cavities to correctly locate an anatomical structure, disease process, or trauma
3. Explain the basic biochemical activities of human body cells, tissues, and organs
4. Explain the functions of major parts of a typical cell.
5. Identify tissue types and name examples of each.
6. Relate the contribution of tissues to the function of organs they compose.
7. Locate and identify bones by standard names.
8. Understand and be able to explain physiology of skeletal tissue.
9. Locate and identify muscles by standard names.
10. Understand and be able to explain the physiology of muscle tissue.
11. Identify nervous system anatomy by standard names.
12. Explain the physiology of nervous tissue and synaptic transmission.

IV. COURSE CONTENT / TOPICAL OUTLINE

1. Introduction to Anatomy and Physiology
2. Biochemistry
3. Cellular level of Organization
4. Histology
5. Integumentary System
6. Skeletal System
7. Muscular System
8. Nervous System

V. INSTRUCTIONAL MATERIALS

A. Required Text(s) Suggested

Hole's Human Anatomy & Physiology; 14th edition; David Shier, Jackie Butler, Ricki Lewis; McGraw Hill Publishing

Human Anatomy & Physiology; 10th edition; EN Marieb and K. Hoehn; Benjamin Cummings Publishing

Seeley's Anatomy & Physiology; 10th edition or newer; Cinnamon VanPutte et. al., McGraw Hill Publishing

Human Anatomy and Physiology; 1st edition; Erin C. Amerman; Pearson Publishing

Anatomy and Physiology; 1st edition; Betts, et.al.; OpenStax Publishing

Recommended textbooks also include later editions of those listed above.

VI. METHOD OF PRESENTATION/INSTRUCTION

The following may be utilized during this course: lecture, laboratory activities, discussion, supplemental learning objects such as animations/videos, demonstrations, companion Internet site access, and in-class activities.

VII. METHODS OF EVALUATION

Evaluation of student learning will be through activities such as tests and exams, quizzes, projects, writing assignments, presentations, outside research, portfolios, and online activities.

VIII. INSTITUTIONAL DEFINED SECTION

(To be used at the discretion of each community college as deemed necessary)