

**Syllabus**

**BIOS2260**

**HUMAN ANATOMY & PHYSIOLOGY II  
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  
Tracy O'Neal Western Nebraska Community College

  
Jennifer Judt (Feb 8, 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 8, 2017)

**Deb Brennan, Central Community College**

Accept

  
Betty Redleaf Collett (Feb 9, 2017)

**Betty Redleaf, Little Priest Tribal College**

Decline

  
Thomas J. McDonnell (Feb 15, 2017)

**Tom McDonnell, Metropolitan Community College**

Decline

  
Jody Tomanek (Feb 8, 2017)

**Jody Tomanek, Mid-Plains Community College**

Accept

  
Leland Henke (Feb 15, 2017)

**Mary Johnson, Nebraska Indian Community College**

Accept

  
John Blaylock (Feb 8, 2017)

**John Blaylock, Northeast Community College**

Accept

  
Dennis Headrick (Feb 9, 2017)

**Dennis Headrick, Southeast Community College**

Accept

  
Kim Kuster Dale (Feb 9, 2017)

**Kim Dale, Western Nebraska Community College**

Accept

## **I. CATALOG DESCRIPTION**

Course Number: BIOS2260

Course Title: Human Anatomy & Physiology II

Prerequisite(s): BIOS 2250 - Human Anatomy & Physiology I

Catalog Description: Introduction to the form and function of the following human body systems: continuation of the special senses, endocrine system, blood and cardiovascular system, lymphatic system, immune system, respiratory system, digestive system, metabolism, urinary system, fluid electrolyte and pH balance, and reproductive systems.

Credit Hours: 4 semester hours / 6 quarter hours

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

## **II. COURSE OBJECTIVES AND COMPETENCIES**

Course will:

1. Briefly review the nervous system and continue to investigate the anatomy and physiology of the special senses.
2. Investigate the anatomy and physiology of the endocrine system.
3. Examine the anatomy and physiology of the blood and cardiovascular system.
4. Explore the anatomy and physiology of the lymphatic system and immunity.
5. Discuss the anatomy and physiology of the respiratory system.
6. Investigate the anatomy and physiology of the digestive system and metabolism.
7. Explore the anatomy and physiology of the urinary system, fluid electrolytes and pH balance.
8. Investigate the anatomy and physiology of the reproductive system.
9. Provide hands-on laboratory learning opportunities that reinforce lecture content.

## **III. STUDENT LEARNING OUTCOMES:**

Students will:

1. Identify nervous system anatomy by standard names.
2. Understand and explain physiology of the nervous system.
3. Identify endocrine system anatomy by standard names.
4. Discuss and be able to explain physiology of the endocrine system.
5. Identify cardiovascular system anatomy and blood components by standard names.
6. Explain physiology of the cardiovascular system and blood components.
7. Identify lymphatic system anatomy and immunity components by standard names.
8. Discuss and be able to explain physiology of the lymphatic system and relate it to the immunity components.
9. Identify respiratory system anatomy by standard names.
10. Understand physiology of the respiratory system.
11. Identify digestive system anatomy by standard names.
12. Summarize physiology of the digestive system.
13. Identify urinary system anatomy by standard names.
14. Understand and be able to explain the physiology of the urinary system including electrolyte and pH balance.

15. Identify reproductive system anatomy by standard names.
16. Explain the physiology of the reproductive system.

#### **IV. COURSE CONTENT / TOPICAL OUTLINE**

1. Nervous system and special senses
2. Endocrine system
3. Cardiovascular system and blood components
4. Lymphatic System and immunity
5. Respiratory System
6. Digestive system
7. Urinary System including water and electrolyte balance
8. Reproductive System

#### **V. INSTRUCTIONAL MATERIALS**

##### **A. Required Text(s) Suggested**

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

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

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

Human Anatomy and Physiology; 1<sup>st</sup> edition; Erin C. Amerman; Pearson Publishing

Anatomy and Physiology; 1<sup>st</sup> 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)*