Syllabus
BIOS 2260
Human Anatomy & Physiology II
2025

Committee Members:

Nick Whitney, Central Community College
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The Institution agrees to the contents in this syllabus including course prefix, number, course description and other contents of this syllabus.

Chief Academic Officer, Central Community College	11/26/2024	Adopt
Theresa Billiot Chief Academic Officer, Little Priest Tribal College	11/13/2024	Adopt
Tom McDonnell Chief Academic Officer, Metropolitan Community College	11/12/2024	Decline
Jody Tomanek Chief Academic Officer, Mid-Plains Community College	11/12/2024	Adopt
Chief Academic Officer, Nebraska Indian Community College	11/26/2024	Adopt
Charlene Widener Chief Academic Officer, Northeast Community College	11/14/2024	Adopt
Joel Michaelis Chief Academic Officer, Southeast Community College	11/13/2024	Adopt
Grant Wilson Chief Academic Officer, Western Nebraska Community College	11/12/2024	Adopt

I. CATALOG DESCRIPTION

Course Number: BIOS 2260
Course Title: Human Anatomy & Physiology II
Prerequisite(s): BIOS 2250 Human Anatomy & Physiology I

Catalog Description: Form, function and homeostasis of the following human body systems: overview of the nervous system and special senses, endocrine system, blood and cardiovascular system, lymphatic system and immunity, respiratory system, digestive system, metabolism, urinary system, and reproductive system, as well as balance of fluids, electrolytes, pH.

Credit Hours: 4 semester hours / 6 quarter hours

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

II. COURSE OBJECTIVES / COMPETENCIES

Course will:

1. Review the nervous system and continue to investigate the anatomy and physiology of the special senses.
2. Identify the anatomy of the following systems: endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive.
3. Explain the physiology of the following systems: endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive.
4. Relate the dynamics of fluid, electrolyte and pH balance to organ systems and homeostasis.

III. STUDENT LEARNING OUTCOMES:

Students will be able to:

1. Describe nervous system anatomy and physiology, including the special senses.
2. Identify endocrine system anatomy using standard terminology.
3. Discuss and explain physiology of the endocrine system.
4. Identify cardiovascular system anatomy and blood components using standard nomenclature.
5. Explain physiology of the cardiovascular system and blood components.
6. Identify lymphatic system anatomy and immunity components using standard terminology.
7. Discuss and explain physiology of the lymphatic system and relate it to innate and adaptive immunity.
8. Identify respiratory system anatomy using standard terminology.
9. Describe the physiology of the respiratory system.
10. Identify digestive system anatomy using standard nomenclature.
11. Explore the physiology of the digestive system.
12. Identify urinary system anatomy using standard terminology.
13. Explain the physiology of the urinary system.

14. Investigate the roles of fluid, electrolyte and pH balance in maintaining body homeostasis.
15. Identify reproductive system anatomy using standard nomenclature.
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
8. Fluid and electrolyte balance
9. Reproductive System

V. INSTRUCTIONAL MATERIALS

A. Required Text(s) Suggested

Hole's Human Anatomy & Physiology; 15th edition or newer; David Shier, Jackie Butler, Ricki Lewis; McGraw Hill Publishing

Human Anatomy & Physiology; 12th edition or newer; EN Marieb and K. Hoehn; Pearson Publishing

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

Human Anatomy and Physiology; 2nd edition or newer; Erin C. Amerman; Morton Publishing

Anatomy and Physiology; 2nd edition or newer; Betts, et.al.; OpenStax Publishing

Anatomy & Physiology: An Integrative Approach: 4th Edition or Newer; Valerie Dean O'Loughlin et al.; McGraw Hill

Human Form Human Function Essentials of Anatomy and Physiology: Enhanced 1st Edition or Newer; Thomas H. McConnell and Kerry L. Hull; Jones & Bartlett Learning

Laboratory Manual to accompany Human Form Human Function Essentials of Anatomy and Physiology: Enhanced 1st Edition or Newer; Kerry L. Hull and Jennifer Shaw; Jones & Bartlett Learning

Customized Curriculum that meets course requirements

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 engaging activities.

VII. METHODS OF EVALUATION

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

VIII. INSTITUTIONAL DEFINED SECTION

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