

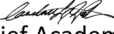


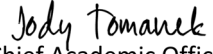




Syllabus
BIOS 2260
Human Anatomy & Physiology II
2022

Committee Members:

Nick Whitney, Central Community College
Dr. Jeba Inbarasu, Metropolitan Community College
Dr. Leah Christensen, Mid-Plains Community College
Jennifer Judt, Northeast Community College
Rebecca Burt, Southeast Community College
Carl Baird, Western Nebraska Community College
N/A, Little Priest Tribal College
N/A, Nebraska Indian Community College

Facilitator: Dr. Leah Christensen

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	04/06/2022	Adopt
 Chief Academic Officer, Little Priest Tribal College	03/28/2022	Adopt
 Chief Academic Officer, Metropolitan Community College	03/28/2022	Decline
 Chief Academic Officer, Mid-Plains Community College	03/28/2022	Adopt
 Chief Academic Officer, Nebraska Indian Community College	04/04/2022	Adopt
 Chief Academic Officer, Northeast Community College	03/28/2022	Adopt
 Chief Academic Officer, Southeast Community College	04/04/2022	Adopt
 Chief Academic Officer, Western Nebraska Community College	03/28/2022	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. 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. Examine 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.
8. Investigate the anatomy and physiology of the reproductive system.
9. Relate the dynamics of fluid, electrolyte and pH balance to organ systems and homeostasis.
10. Provide engaging laboratory learning opportunities that reinforce lecture content.
11. Explain homeostasis and how it applies to the nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive system.

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

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)