

SOUTHEAST COMMUNITY COLLEGE
DIVISION OF ARTS AND SCIENCES
Sciences
Revision Date: 07-01-25

I. CATALOG DESCRIPTION

Course Number: BIOS2260
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: 4.0
Class Hours: 45.0
Lab Hours: 30.0
Contact Hours: 75.0

II. COURSE OBJECTIVES: *Course will:*

- A.** Review the nervous system and continue to investigate the anatomy and physiology of the special senses.
- B.** Identify the anatomy of the following systems: endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive.
- C.** Explain the physiology of the following systems: endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive.
- D.** Relate the dynamics of fluid, electrolyte and pH balance to organ systems and homeostasis.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES

- A.** Student Learning Outcomes: *Student 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 by 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.

B. General Education Learning Outcomes

1. GELO #5: Analytical, Quantitative, and Scientific Reasoning

Outcome: Apply mathematical and scientific methods to solve problems from an array of contexts and everyday situations.

Outcome: Understand and create logical arguments supported by quantitative and scientific evidence and communicate those arguments in a variety of formats.

Outcome: Manipulate formulas, data sets, graphs, tables, etc. in a way to produce a meaningful outcome.

IV. CONTENT / TOPICAL OUTLINE (*course outline may provide more detailed information*)

A. Nervous system and special senses

B. Endocrine system

C. Cardiovascular system and blood components

D. Lymphatic System and immunity

E. Respiratory System

F. Digestive system

G. Urinary System

H. Fluid and electrolyte balance

I. Reproductive System

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

1. Betts, et al., *Human Anatomy and Physiology*, 2nd ed., OpenStax Publishing, 2022, Hardcover ISBN: 978-1-711494-06-7; Paperback ISBN: 978-1-711494-05-0; Digital ISBN: 978-1-951693-42-8.

2. Amerman, *Exploring Anatomy & Physiology in the Laboratory*, 2nd ed., Morton Publishing, 2018, ISBN: 978-1-61731-780-4

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of evaluation typically include a combination of the following:

1. Lecture

2. Laboratory activities

3. Discussion

4. Supplemental learning objects, such as: animations/videos, demonstrations, companion Internet site access, and in-class activities.

VII. METHODS OF EVALUATION

A. Methods of evaluation typically include a combination of the following:

1. Tests and exams

2. Quizzes

3. Projects

4. Writing assignments

5. Presentations

6. Outside research

7. Portfolios

B.	8. Online activities				
	SCC GRADING SCALE				
	A+	95-100	C+	75-79	F 59 or less
	A	90-94	C	70-74	
	B+	85-89	D+	65-69	
	B	80-84	D	60-64	