



COURSE SYLLABUS

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Supply, North Carolina 28462
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COURSE: BIO 169 **ANATOMY AND PHYSIOLOGY II**

HOURS: Lecture: 3 Lab: 3 Shop/Clinical: 0 Credits: 4

COURSE DESCRIPTION:

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved for transfer under the Comprehensive Articulation Agreement as a Pre- Major/Elective course requirement.*

PREREQUISITE(S): BIO 168

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

TEXT (all sections):

Tate, Philip. *Seely's Principles of Anatomy and Physiology*, 2nd Edition. Boston: McGraw-Hill, 2012. Print. ISBN 9780073378190
Readability Level: 12.

LAB MANUAL (seated sections only):

Wise, Eric. *Laboratory Manual (to accompany Seely's Principles of Anatomy and Physiology)*, 2nd Edition. Boston: McGraw-Hill, 2012. Print.
ISBN 9780077351281
Readability Level: 10

ONLINE SECTIONS ONLY:

Online students must have access to a textbook, ConnectPlus with access to APR and PHILS and purchase a lab kit.

Connect 2 Semester Access Card with APR and Phils, Boston: McGraw-Hill, 2012. ISBN 9780077351335

eScience Labs. Anatomy and Physiology V2 eScienclabs.com Kit 5019

OPTIONS for Online Sections:

Or Bundle: Tate, Phillip. *Seely's Principles of Anatomy and Physiology with ConnectPlus 2 semester access code includes APR and Phils access, 2nd Ed.*
Hardback text and Custom A&P kit
ISBN 9781259670572 (Bundle) and SKU 5019

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Analyze the role of hormones in maintenance of long-term homeostasis.
2. Examine the different endocrine glands and explain their functions.
3. Discuss the importance of blood as a connective tissue, identify blood elements and discuss their functions.
4. Identify the anatomy of the heart.
5. Explain systemic, pulmonary, coronary and lymphatic circulation and functions, and examine the circulatory system.
6. Describe the anatomy of blood and lymph vessels.
7. Distinguish differences between specific and non-specific immune response.
8. Describe the anatomical structures of organs, their organization and functions within the respiratory, digestive, urinary and reproductive systems.
9. Analyze the importance of metabolism in maintaining homeostasis, and describe the pathways that exist in order to manufacture ATP from various biological chemicals.
10. Explain the interrelatedness between the different systems of the body in maintaining fluids, electrolytes and pH balance.
11. Identify the key events that occur from fertilization through fetal development until birth.

SYLLABUS INFORMATION:

The Student Learning Outcomes listed in this syllabus are those required actions that a student who successfully completes the course must be able to perform. The educational experience, however, is a two-way, interactive process involving both the student and the instructor. The student must play an active role in the learning process in order to be successful. Instructors will provide an Instructor's Syllabus at the first class meeting explaining how they measure each of the Student Learning Outcomes. A student who is unable to accomplish the outcomes will not receive a passing grade in the course.

The information in this BCC Syllabus may not be accurate beyond the current semester. Textbooks and other course materials are subject to change. Students should verify the textbooks at the first class meeting with their instructor prior to purchasing.

GRADING SYSTEM:

Brunswick Community College employs a system of letter grades and corresponding quality points per grade to evaluate a student's performance in meeting the stated goals and objectives for each course. The grading system is published in the BCC Catalog and BCC Student Handbook.

ATTENDANCE POLICY:

Each student has individual responsibility for attending class regularly and for meeting course objectives. A student is expected to attend all class meetings in a course. Rules on tardiness and leaving class early are addressed in each instructor's syllabus. Instructors are required to record absences and report excessive absenteeism to the Registrar.

If a student is absent for any reason in excess of 20 percent of the class hours, he or she is in violation of the Brunswick Community College attendance policy. Unless the student officially withdraws from the course prior to the 65 percent point of the 16 week semester (or equivalent days for courses of other duration), he or she may receive a grade of "F."

Students who receive an "EXCESSIVE ABSENTEEISM NOTICE" are advised to contact their instructors immediately to review the conditions for withdrawing from the course or for continuing the course.

STUDENTS WITH DISABILITIES:

Brunswick Community College complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, which require that no qualified student with a disability be excluded from participation in or be denied the benefits of any services, programs or activities on the basis of his or her disability. If a student has a disability that is covered by the Americans with Disabilities Act and requires accommodations in the classroom and/or in extracurricular activities, the student must request the accommodations in writing and submit the request to the Disability Services Coordinator. Instructors will not provide accommodations without notification from the Disability Services Coordinator. Brunswick Community College will make every effort to provide reasonable accommodations.