BIO 160 INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

Credit Hours: 4 Lec: 3 Lab: 3

General Education Course: G (global awareness)

PREREQUISITE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

COURSE DESCRIPTION
Biology 160 is a study of the structure and function of the human body. The course is designed for students who desire a one semester course in anatomy and physiology.

1. COURSE GOALS
   In this course, students will:
   1.1. locate, label, and recognize the basic structures of the human body.
   1.2. summarize the functions of each organ system.
   1.3. relate normal physiological processes to a loss of homeostasis in each organ system.
   1.4. integrate an understanding of the functioning of the organs within each organ systems and the interactions of the body systems at the organismal level.

2. OUTCOMES
   Upon satisfactory completion of this course, student will be able to:
   2.1. apply descriptive, anatomical, physiological, and directional terminology to the human body and its organization.
   2.2. classify the major chemical components of living things according to their structure and function.
   2.3. characterize the basic structure and functions of the cell, the organelles, and all its parts.
   2.4. identify how cells store and use energy.
   2.5. analyze the role of DNA in controlling cell functions.
   2.6. correlate the structure of tissues with their functions.
   2.7. analyze how components of the integumentary system function in the body.
   2.8. analyze how components of the skeletal system function in the body.
   2.9. analyze how components of the muscular system function in the body.
   2.10. analyze how components of the nervous system function in the body.
   2.11. correlate the major organs of the endocrine system with their function in the body.
   2.12. analyze how components of the cardiovascular system function in the body.
   2.13. analyze how components of the lymphatic/immune system function in the body.
   2.14. analyze how components of the digestive system function in the body.
   2.15. analyze how components of the respiratory system function in the body.
   2.16. analyze how the components of the urinary system function in the body.
   2.17. analyze how components of the reproductive systems function in the body.
   2.18. use appropriate laboratory methods, tools, and safety precautions in order to investigate anatomy and physiology at gross and microscopic levels.

3. AWC General Education (GE) Outcomes
   3.1. Scientific Literacy
      • Utilize data to communicate and apply an understanding of scientific logic and/or quantitative reasoning.
   3.2. Civic Discourse
      • Study of scientific discipline that includes ecological and environmental interrelationships.
4. METHODS OF INSTRUCTION
   4.1. Lecture by professors and/or guest lecturers
   4.2. Laboratory exercises
   4.3. Films and other audio-visual presentations
   4.4. Classroom demonstrations
   4.5. Student discussion and group activities
   4.6. Homework assignments
   4.7. Interactive Audio-visual materials

5. LEARNING ACTIVITIES
   5.1. Take notes during lecture on the structure and function of the human body
   5.2. Utilize audio-visual materials, and other interactive activities
   5.3. Participate in recitation, class discussion, and internet activities
   5.4. Complete laboratory investigations of anatomy and physiology including:
       5.4.1. Examination of preserved specimens (gross and microscopic)
       5.4.2. Examination of models and diagrams
       5.4.3. Experimentation to enhance understanding of physiological principles
   5.5. View Instructor demonstrations
   5.6. Complete writing assignments

6. EVALUATION AND ASSESSMENT
   6.1. Laboratory exercises
   6.2. Homework assignments
   6.3. Quizzes
   6.4. Exams

7. STUDENT RESPONSIBILITIES
   7.1. Under AWC Policy, students are expected to attend every session of class in which they are enrolled.
   7.2. If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course. Students who are not attending as of the 45th day of the course may be withdrawn by the instructor. If the student does not withdraw from the course and fails to complete the requirements of the course, the student will receive a failing grade.
   7.3. Americans with Disabilities Act Accommodations: Arizona Western College provides academic accommodations to students with disabilities through AccessABILITY Resource Services (ARS). ARS provides reasonable and appropriate accommodations to students who have documented disabilities. It is the responsibility of the student to make the ARS Coordinator aware of the need for accommodations in the classroom prior to the beginning of the semester. Students should follow up with their instructors once the semester begins. To make an appointment call the ARS front desk at (928) 344-7674 or ARS Coordinator at (928) 344-7629, in the College Community Center (3C) building, next to Advising.
   7.4. Academic Integrity: Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging an instructor’s signature—will be subject to the procedures and consequences outlined in AWC’s Student Code of Conduct.
   7.5. Texts and Notebooks: Students are required to obtain the class materials for the course.