

ARIZONA WESTERN COLLEGE
SYLLABUS

BIO 160 INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

Credit Hours: 4 Lec: 3 Lab: 2 Rec: 1

General Education Course: G (global awareness)

PREREQUISITE: None

COURSE DESCRIPTION

Biology 160 is a study of the structure and dynamics of the human body. It is designed for students who desire a one semester course in anatomy and physiology. This course prepares students who wish to pursue allied health fields such as medical transcription and paramedic. This course also serves as a preparation for those students who need a basic background before taking BIO 201.

1. COURSE GOALS

- 1.1 Locate, label, and recognize the basic structures of the human body.
- 1.2 Summarize the functions of each of the organ systems of the body.
- 1.3 Relate normal physiological processes to a loss of homeostasis in each of the organ systems studied.
- 1.4 Integrate an understanding of the functioning of the organs within each of the organ systems and the interactions of the body systems making up the whole individual.

2. OUTCOMES

Upon satisfactory completion of this course, students will be able to:

- 2.1 recognize and describe the levels of organization of the human body from the chemical level to the level of the individual organism.
- 2.2 name the major structures on a model and a diagram of the cell.
- 2.3 identify the function of the structures found in the cell.
- 2.4 identify on diagrams and models the major structures of the integumentary, skeletal, muscular, cardiovascular, immune, respiratory, urinary, digestive, nervous, endocrine, and reproductive systems.
- 2.5 describe the principle functions of each of the organ systems listed in 2.4.
- 2.6 given models and diagrams, name the major muscle group that is indicated in each instance and the major action of that muscle.
- 2.7 name the bones that make up the human skeleton and, given diagrams, label the structure of a joint and a long bone.
- 2.8 relate the structure of an organ to its function.
- 2.9 describe the concept of homeostasis and give an example of a loss of homeostasis for each organ system listed in 2.4.
- 2.10 demonstrate an ability to use the microscope in order to view tissues in the laboratory.
- 2.11 work as a team in order to dissect a brain, heart, kidney, and fetal pig and relate the structures found in dissection with structures found in humans.

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 a scientific discipline that includes ecological and environmental interrelationships.

4. METHODS OF INSTRUCTION

- 4.1 Lecture
 - 4.2 Laboratory exercises
 - 4.3 Slide presentations
 - 4.4 Films
 - 4.5 Classroom demonstrations
 - 4.6 Student discussion
 - 4.7 CD-ROM and Internet activities
5. LEARNING ACTIVITIES
- 5.1 Lecture on the structure and function of the human body
 - 5.2 Guest speakers when available and relevant
 - 5.3 Audio-visual materials when appropriate
 - 5.4 Recitation, class discussion, questions and answers to augment the lecture
 - 5.5 Internet explorations to augment the lecture
 - 5.6 CD-ROM is available
 - 5.7 Laboratory investigation through:
 - 4.7.1 Examination of preserved materials
 - 4.7.2 Viewing of microscopic preparations
 - 4.7.3 Examination of models
 - 4.7.4 Demonstrations by the instructor where applicable
 - 4.7.5 Experimentation to correlate with lecture material
 - 5.8 Writing Assignments
6. EVALUATION
- 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.
 - 7.6 Arizona Western College students are expected to attend every class session in which they are enrolled. To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for “No Show” reporting during the first 10 days of each semester.

Students who have enrolled but have never attended class may be issued a “No Show” (NS) grade by the professor or instructor and receive a final grade of “NS” on their official academic record. An NS grade may result in a student losing their federal financial aid.

For online classes, *student attendance in an online class is defined as the following* (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computer-assisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course