

**NORTHWESTERN CONNECTICUT COMMUNITY COLLEGE
COURSE SYLLABUS**

Course Title: PRINCIPLES OF THE HUMAN BODY

Course #: BIO* 110

Course Description: 3 semester hours (3 lecture hours)

This course is a non-majors course designed to introduce students to basic principles required to support human life. The cellular nature of life and organization and function of organs and organ systems is emphasized. In addition to the textbook, students use a variety of resources from traditional print to electronic media to acquire and evaluate relevant scientific content. Selected body systems and disease states are discussed. This course cannot be used as the prerequisite for BIO 211 or BIO 235.

Pre-requisite/Co-requisite: ENG* 063 and ENG*073 or ENG 093 or satisfactory scores on the placement test. Computer skills, including email, word processing, and web navigation **are critical** for this course.

Goals: The goal of this course is to introduce students to biological principles as they apply to the human body, to introduce students to the structure and function of selected systems of the human body, to develop the ability to gather and read scientific content from a variety of sources and evaluate it as an information source, to understand the biological basis of selected disease states.

Outcomes:

1. Upon the completion of this course, students should be able to:
 - a. Evaluate scientific information sources
 - b. Apply principles of scientific method
 - c. Recognize and identify the structure and function of a variety of cell types
 - d. Recognize the various methods of transportation of substances across the cell membrane and predict the results exposure of cells to different tonicities
 - e. Discuss the importance and mechanism of homeostasis and identify several controlled conditions in the human body
 - f. Identify structure and functional components of a variety of body systems including but not limited to the integumentary system, digestive system, cardiovascular system, respiratory, musculoskeletal system, nervous system and urinary systems
 - g. Identify the biological basis of selected disease states
 - h. Demonstrate and understanding of the genetics as it applies to inheritance

College Policies:

Plagiarism: Plagiarism and Academic Dishonesty are not tolerated at Northwestern Connecticut Community College. Violators of this policy will be subject to sanction. Please refer to your “Student Handbook” under “Policy on Student Rights,” the Section entitled “Student Discipline,” or the College catalog for additional information.

Americans with Disabilities Act (ADA): The College will make reasonable accommodations for persons with documented learning, physical, or psychiatric disabilities. Students should notify Roseann Dennerlein, the Counselor for Students with Disabilities. She is located at Green Woods Hall, in the Center

for Student Development. Her phone number is 860-738-6307 (V/TTY) and her email is rdennerlein@nwcc.commnet.edu.

School Cancellations: If snowy or icy driving conditions cause the postponement or cancellation of classes, announcements will be made on local radio stations. Students may also call the College directly at (860) 738-6464 to hear a recorded message concerning any inclement weather closings. Students are urged to exercise their own judgment if road conditions in their localities are hazardous.