



Wayne County Community College District

COURSE SYLLABUS

BIO 240 Human Anatomy & Physiology I

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00 HL / 30 HLB

COURSE DESCRIPTION:

Lecture and laboratory course on the structure and function of the human body. The cellular, tissue, organ and systems levels are considered. Emphasis is on the integumentary, skeletal, muscular and nervous systems including the special senses. The laboratory supplements the lecture with the use of microscopes to study the four basic tissues. The use of the torso, models, articulated/disarticulated skeletons, dissection of sheep brain and bovine eyes are used to study the other systems. (Meets six hours per week; four hours lecture and two hours laboratory)

PREREQUISITES: BIO 155

EXPECTED COMPETENCIES:

Upon the completion of this course the student will demonstrate:

1. The organization of the body
2. The appropriate scientific/medical terminology
3. The basic tissue types – epithelium, connective, muscle, nervous
4. The integumentum system
5. The skeletal system including specific bones and selected markings
6. The nervous system including the observation and identification of the major areas of the brain, spinal cord areas and the various types of nerves
7. The sense organs including the ear and eye
8. The proper use of the microscope
9. The histology of the basic tissue types – epithelium, connective, muscle, nervous
10. The skeletal system using human and plastic bones, and charts pictures and models.
11. The central nervous system (brain and spinal cord) and the peripheral nervous system (cranial and spinal nerves)
12. The basic/major parts of the eye and ear
13. The anatomy of the muscular system and the physiology of muscle contraction
14. Dissection of the sheep brain and sheep eye.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E