



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

BIOL 257 Anatomy and Physiology I

Division	Science/Mathematics
Contact Hours	90
Theory	45
Lab Hours	45
Total Credits	4

Prerequisites	BIOL 151 or
Corequisite	BIOL 151 with admission to the Associate Degree Nursing (ADN) program or the Practical Nursing (PN) program

Course Description

Fundamental concepts of cellular structure and human body organization. Emphasis on tissue organization, structure, and function; and anatomy and physiology of the following human organ systems: integumentary, skeletal, muscular, nervous and special senses. Integrated principles of chemistry, biology, and embryology are covered. This course is required for all students in the Health Sciences curriculum. Course requires laboratory work. Dissection of preserved animal specimens is required

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Identify the organization of the body on a chemical, cellular and tissue level
2. Observe and describe differences in basic tissue types in order to be able to predict tissue and organ function based on structure
3. List the eleven organ systems, the organs they include, and their basic function, in order to carry out a systematic study of the human body
4. Describe the homeostatic condition and control systems for important variables
5. Relate structure to the function of cells, tissues, and selected organs in order to demonstrate an understanding of the physiology of the systems of the human body
6. Identify and describe the structure and function of the skin
7. Identify and describe structures of the skeletal system and their relationships and interactions with other structures
8. Describe the basic structure and function of skeletal muscle tissues
9. Identify and describe the major muscles including attachment sites and the action of the muscles
10. Identify and describe the major structures of the nervous system and explain their function
11. Describe the organs involved in mediating the general and special senses, including the structure and function of each organ

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