

Minnesota State University Moorhead

BIOL 126: Human Anatomy and Physiology II

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: BIOL 125

Corequisites: None

MnTC Goals: None

The second semester of an introductory lecture and laboratory sequence in human anatomy and physiology for nursing students. The course examines the fundamental concepts of human structure and function including covering muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive systems.

B. COURSE EFFECTIVE DATES: 02/12/2005 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Course Introduction.
2. Cardiovascular system - Form and Function.
3. Lab: EKG and blood pressure readings.
4. Lymphatic System - Form and Function.
5. Respiratory System - Form and Function.
6. Lab: Spirometer Experiment.
7. Digestive System - Form and Function.
8. Urinary System - Form and Function.
9. Lab: Urinary Experiment using urine strips.
10. Endocrine System.
11. Reproductive System.
12. Lab: long term effects of testosterone and estrogen injections on animal development.

D. LEARNING OUTCOMES (General)

1. To learn anatomical structures of organs and organ systems for cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine and reproductive systems.
2. To learn functions of organs and organ systems for cardiovascular, lymphatic, respiratory, digestive, urinary, endocrine and reproductive systems.
3. To learn how to design basic experiments using hypothesis testing.
4. To expose students to pieces of medical instruments such as EKG's, spirometers and blood pressure kits.
5. To learn computer application associated with medical instruments in #6.
6. To learn computer application in basic statistical analyses in laboratory experiments.
7. To learn how to write a scientific laboratory report from in-lab experiments.
8. To communicate to peers their results of laboratory reports.
9. To prepare students for careers in health and medical sciences.

.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted