

Master Syllabus

BIO 1108 - Lab for Human Biology

Division: Science, Mathematics and Engineering

Department: Biology

Credit Hour Total: 0.0

Date Revised: August 2016

Course Description:

The lab component of a survey course that studies the structure and function of the human body. Lab work topics include histology, cytology and the anatomy of the skeleton, muscles, nervous system structures, blood components, the heart, blood vessels and structures within the respiratory, digestive, urinary and male and female reproductive systems. Summarization is achieved through the dissection of a preserved fetal pig.

General Education Outcomes:

- ❑ Oral Communication Competency
- ❑ Written Communication Competency
- ❑ Critical Thinking/Problem Solving Competency
- ❑ Computer Literacy Competency
- ❑ Information Literacy Competency

Course Outcomes:

Anatomical Terminology

Comprehend the meaning of, and be able to correctly utilize, medical terminologies that are fundamental in the study of anatomy and physiology.

Assessment Method: Locally developed exams
Performance Criteria:

Accumulate a minimum total of 60% of the available points in the course (Lab Tests)

Tissue Classification

Use a microscope to categorize tissue specimens as either epithelial, connective, nervous or muscular, and recognize specific tissues within more general categories.

Assessment Method: Locally developed exams
Performance Criteria:

Accumulate a minimum total of 60% of the available points in the course (Lab Tests)

Organ System Major Anatomical Components

Demonstrate comprehension of, and describe the relationships between, the various organs that are contained within each body system.

Assessment Method: Locally developed exams
Performance Criteria:

Accumulate a minimum total of 60% of all the available points in the course (Lab Tests)

Scientific Method

Comprehend the process of science that is utilized to understand nature. Apply components of this process, including making observations, forming testable hypotheses, and experimentation.

Assessment Method: Locally developed exams
Performance Criteria:

Accumulate a minimum total of 60% of the available points in the course (Lab Tests)

Outline:

Tissues
The skeletal system
The muscular system
Central nervous system
Sheep brain dissection
Peripheral nervous system
Cardiovascular system (blood, heart and blood vessels)
Sheep heart dissection
Respiratory system

Digestive system

Urinary system

Reproductive system

Fetal Pig dissection