Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

BIO 1107 - Human Biology

Division: Science, Mathematics and Engineering

Department: Biology

Credit Hour Total: 3.0 **Lecture Hrs:** 2.0 **Lab Hrs:** 2.0

Prerequisite(s): DEV 0012AND DEV 0022AND DEV 0030

Date Revised: February 2014

Course Description:

The survey course studying the structure and function of the human body. Topics include introductory terminology, cytology, the integumentary system, the skeletal system, the muscular system, the nervous system, the endocrine system, the cardiovascular system, (blood, heart and blood vessels), the lymphatic system, the respiratory system, the digestive system, the urinary system and the reproductive system. Two classroom, two lab hours per week.

General Education Outcomes:

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

Course Outcomes:

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 (Lecture exams, Quizzes, and Lab Tests)

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 (Lecture exams, Quizzes, and Lab Tests)

Homeostatic Principles
Describe the major physiological processes that each system contributes to body homeostasis and apply positive and/or negative feedback concepts to those homeostatic control mechanisms.

Assessment Method: Locally developed exams
Performance Criteria: Accumulate a minimum total of 60% of the available points in the course (Lecture exams, Quizzes, and Lab Tests)

Organ Systems
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 (Lecture exams, Quizzes, and Lab Tests)

Organ System Functions
Identify the major functions of the following organ systems: integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive. Use correct scientific terminology in describing the principle physiological processes central to each organ system. Generally describe the mechanisms and control systems for these physiological processes, relate the physiological functions to the anatomical structures within the applicable organ system.

Assessment Method: Locally developed exams
Performance Criteria: Accumulate a minimum total of 60% of all the available points in the course (Lecture exams, Quizzes, and Lab Tests)

Outline:

Introductory terminology
Cells
Integumentary system
Bone tissue
The skeletal system
Articulations
Muscle tissue
The muscular system
Nervous tissue

Central nervous system
Peripheral nervous system
Autonomic nervous system
Endocrine system
Cardiovascular system (blood, heart and blood vessels)
Lymphatic system
Respiratory system
Digestive system
Urinary system
Reproductive system