

Master Syllabus

BIO 1141 - Principles of Anatomy & Physiology I

Division: Science, Mathematics and Engineering

Department: Biology

Credit Hour Total: 4.0

Lecture Hrs: 3.0 **Lab Hrs:** 2.0

Prerequisite(s): DEV 0015AND MAT 0100OR MAT 1130

Date Revised: December 2016

Course Description:

The first course in a two-semester sequence studying the structure and function of the human body. Topics include introductory terminology, biochemistry, cells, the integumentary system, the skeletal system, the muscular system, the nervous system and the endocrine system. Three classroom, two lab hours per week.

General Education Outcomes:

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

Course Outcomes:

Physiological Competence

Use correct scientific terminology in describing the physiological processes central to each organ system; describe the mechanisms, biochemical pathways, and control systems for the principle physiological processes; relate physiological function to the anatomical structure of the organ systems.

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)

Comprehension of Homeostatic mechanisms and Organ system interdependence

Describe the physiological processes that each organ system contributes to body homeostasis; describe the interdependence of the organ system to the other organ systems of the body.

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 Competence

Use formal anatomical terminology in describing the tissues and organs of the organ-system; identify and locate tissues and organs on diagrams, photos, models, tissue slides, and dissected specimens; relate anatomical structure to physiological function.

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)

Outline:

Introductory terminology Biochemistry 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