Course Prefix and Number:  BIO 231  Credits:  4

Course Title:  Human Anatomy and Physiology I

Course Description:  Integrates the study of gross and microscopic anatomy with physiology, emphasizing the analysis and interpretation of physiological data. Prerequisites:  One year of college biology and one year of college chemistry or school approval. Lecture 3 hours.  Recitation and Laboratory 3 hours.  Total 6 hours per week.

General Course Purpose:  This course provides the content of the first semester of an introductory anatomy and physiology course for science majors and students pursuing entrance into professional schools.

Course Prerequisites and Co-requisites:
Prerequisites:  One year of college biology and one year of college chemistry or school approval.

Course Objectives:
Upon completing the course, the student will be able to
a.  List and describe the major organ systems of the body;

b.  List and describe the different types of tissues present in the human body;

c.  Enumerate, using appropriate anatomical terminology, all of the bones in the human body;

d.  Identify the major superficial and deep muscles present in the human body; and

e.  Explain the production of an action potential in muscles and neurons.

Major Topics to Be Included:
a.  Cellular anatomy and physiology

b.  Skeletal system

c.  Muscular system

d.  Nervous system

Effective Date of Course Content Summary:  February 16, 2009