Course: BIOL 2321

Catalogue Description: This course examines the gross structure and functions of the human organism. It is designed for students in biology, the health professions, and physical education.

Context: No prerequisites are listed. This course is required of nursing, nutrition, physical education, and nuclear medicine. It may be taken to satisfy the core curriculum requirement for a laboratory science when completed with the lecture class. The course may not be repeated for credit.

Course Overview: Anatomy and Physiology I is a course covering the first half of a two semester sequence on the structure and function of the human organism. The purpose of this course is to familiarize students with the levels of organization; the relationship of structure to function; cell structure, growth, and metabolism; cell transport mechanisms; protection and temperature regulation; support and movement; and the integration and control functions of the human body. This course is designed for students in the allied health fields, biology, pre-service teachers, and physical education. Topics to be mastered by the student are basic anatomical terminology, cellular transport mechanisms and the structure and function of tissues; skin and other membranes; bones, muscles, the nervous system, and special senses.

Course Outcomes: On completion of the course, the student will be able to:

1. Identify anatomical structures and describe their function;
2. Explain how body systems interact at various levels of organization to maintain a dynamic equilibrium;
3. Relate structural characteristics to their function;
4. Apply knowledge of anatomy and physiology to understanding health and disease;
5. Interpret basic physiological test and relate physiological data to the function of body systems;
6. Evaluate the effect on external environment on coordination and control of homeostasis;
7. Participate in decision making that affects the student’s own health.

Students will be evaluated by written exams and weekly quizzes.

Disability Statement
The University is committed to providing a supportive and challenging environment for all students. In accordance with the American with disabilities act (ADA), the University offers a variety of services to assist students with physical and learning disabilities. For more information contact the Office of Student Disability Support Services.

Policy on academic Integrity
The highest standards of academic honesty are expected in the course. Forms of academic dishonesty include, but are not limited to cheating, plagiarism, counterfit work, falsification of academic record, unauthorized reuse of work, theft, and collusion. See the Student Handbook for definitions and procedures for investigation of claims of academic dishonesty.

Approval Date: Fall 2004 (received 11/12/2014)