COURSE OBJECTIVES, OUTCOMES AND ASSESSMENT

SC1 – 201 Anatomy and Physiology I

This course is half of a full course of Anatomy and Physiology which overall is designed to provide students with a basic understanding of the structure, function, and disorders of the human body. In Anatomy and Physiology I, the topics include an overview of the integumentary, skeletal, muscular, and nervous systems, as well as discussion of tissues and special senses. The course is a combination of a lecture component and a laboratory component. A three hour lab is required each week.

Course Objective/Outcomes, Activities and Assessment

The primary objective and outcome of this course is to make the student understand the construction of the human body and how this construction is related to the function of the human body. This will be achieved by:

1. To provide a forum where critical thinking is developed.
2. To provide basic understanding and working knowledge of the human body.
3. To provide an introduction to the language of anatomy and physiology and use anatomical terms fluently when describing different tissues and organs.
4. To provide an understanding of the techniques and tools to analyze anatomical structures and function.
5. To specifically use these techniques and tools to enrich the understanding of human anatomy and physiology.
6. To become familiar with essential concepts including structure and functional level of organization and homeostasis.
7. To provide an understanding of the anatomy and histology and organization of cells, tissues, and organ systems and be able to recognize the gross and microscopic anatomy of the tissues and organs and also demonstrate how different tissue types interact to create organs.
8. To specifically examine the gross anatomy and histology of the skin, muscle, skeletal, nervous and sensory systems and examine the biomechanics of the muscular system.
9. To describe the significance of the nerve impulse in making rapid adjustments for maintaining homeostasis and to learn how nervous system detects changes in the
10. To develop observational skills and logical thought patterns.
**Activities and Methods of Assessment:**

Numerous different activities (depending on the concept or topic) are carried out to engage the students to attain the objectives and outcomes.

**Lecture:**
- Standard lectures by professor
- Multimedia diagrams (hand drawings, overhead and LCD projections)
- Oral presentations by students
- Poster presentations by students (individual and group)
- Development of a research paper (tour of the library and seminar by librarian teaching methods to carry out literature searches and glean topical information)
- Field trip(s): Museum of science for relevant exhibits.

**Practical/laboratory:**
- Anatomical posters
- Anatomical models
- Drawing of diagrams
- Dissection of tissues
- Individual lab work (all of the above)
- Group lab work (all of the above)

Different methods of assessment (some overlapping) are used to discern if the objectives and outcomes are met by the students:

**Lecture**
- Class tests – short answer, short essay, multiple choice,
- Final comprehensive exam - short answer, short essay, multiple choice,

**Practical/laboratory**
- Lab quizzes (written and diagrammatic)
- Lab practical (models and dissection recognition)

**Lecture/Practical**
- Literature research paper