COURSE OBJECTIVES, OUTCOMES AND ASSESSMENT

SCI-202 Anatomy and Physiology II

This course is a continuation of SCI-201 Anatomy and Physiology I. Topics include a discussion of body fluids, electrolytes, and the cardiovascular, lymphatic, respiratory, digestive, urinary, and endocrine and reproductive system. A three-hour lab session is required each week.

Course Objective/Outcomes, Activities and Assessment

Learning objectives and outcomes of this course are to instill:

1. An accurate understanding and working knowledge of the human body.
2. To provide writing and critical thinking.
3. To understand organizational and functional relationship between vital systems. To explain that the structure of virtually every body part is suited to its function.
4. To become familiar with some of the factors which influence human health, and explore the causes and symptoms of some common diseases.
5. To provide basic knowledge of the scientific method.
6. To explain how body maintains itself on a day-to-day basis (homeostasis) through the mechanism of circulation, respiration, digestion, cellular metabolism, urinary functions and buffer systems.
7. To become familiar with medical terminology associated with each body system.
8. To explain the anatomy and physiology of reproductive system and to describe the symptoms and causes of examples of male and female disorders.
9. To develop basic dissection skills. Dissection will provide an opportunity for you to examine organs and tissues in a condition that closely resemble actual life.
10. To be able to apply the concept and information learned to problems that affect their lives.

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 carryout 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