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## Sciences

### SCI215 Life Sciences

**8 Credit Hours**  
**96 Clock Hours**

Study of the structure and function of the human body. Students are introduced to the various body systems, including the integumentary, skeletal, muscular, nervous, sensory, endocrine, respiratory, digestive, urinary, reproductive, hematological/immunological, and cardiovascular. Course includes definitions, terminology, chemical basis of life, and energy, as well as microbiology.

### SCI220 Human Sexuality

**4 Credit Hours**

An introduction to the biological and developmental aspects of human sexuality. Topics include the anatomy and physiology of reproduction; sexual development and behavior; current issues in contraception, artificial insemination, transmission and control of sexual diseases; and gender selection.

### SCI223 Anatomy and Physiology I

**4 Credit Hours**

Study of the structure, function, and pathology (disease) of the human body. Students are introduced to various body systems, including the musculoskeletal, digestive, nervous, and integumentary, as well as the senses.

### SCI224 Anatomy and Physiology II

**4 Credit Hours**

Students continue to develop their understanding of the anatomy, physiology, and pathology (diseases) of the human body. Topics covered include the cardiovascular, respiratory, urinary, endocrine, lymphatic, and reproductive systems.

Prerequisite: SCI223

### SCI225 Anatomy and Physiology Laboratory I

**1 Credit Hour**

An introduction to the basic principles of human anatomy and physiology as explored through laboratory sessions. Laboratory activities coincide with lectures to enhance understanding of each topic by providing visual and hands-on experiments for the concepts learned in the lecture. Laboratory sessions include microscopy, dissections, and elementary physiological experiments. Among the topics considered are various body systems, including the musculoskeletal, digestive, nervous, and integumentary, as well as the senses.

Corequisite: SCI223

### SCI226 Anatomy and Physiology Laboratory II

**1 Credit Hour**

Continues the study of human anatomy and physiology through laboratory exploration. Laboratory activities coincide with lectures to enhance understanding of each topic by providing visual and hands-on experiments for the concepts learned in the lecture. Laboratory sessions include microscopy, dissections, and elementary physiological experiments. Among the topics covered are the cardiovascular, respiratory, urinary, endocrine, lymphatic, and reproductive systems.

Prerequisite: SCI225  
Corequisite: SCI224

### SCI228 Microbiology

**4 Credit Hours**

The morphology and function of microorganisms, especially viruses and bacteria, are studied. The characteristics of microorganisms, the disease process, and the immune response are discussed.

**SCI230 Forensic Science****4 Credit Hours**

An introduction to the application of science to law. Students are introduced to the field of forensic science through a hands-on approach to its applications to criminal investigations, with clear explanations of the techniques, abilities, and limitations of the modern crime laboratory and crime-scene analysis.

**SCI233 The Evolution of Life****4 Credit Hours**

An introduction to the process of evolution by natural selection with a focus on the biological basis of inheritance, adaptation, population dynamics, and human origins.

**SCI234 Pathophysiology****2 Credit Hours**

Students are introduced to disease and its abnormal physiological pathways through each body system. Treatments, both surgical and medicinal, are discussed.

Prerequisites: SCI224, SCI226

**SCI235 Health and Fitness****4 Credit Hours**

An introduction to basic health concepts. Topics include an examination of the principles of human health, its relationship to personal fitness, nutrition, stress, and an overall understanding of wellness.

**SCI242 Bioethics and Medical Law****4 Credit Hours**

This course provides an understanding of the legal, moral, and ethical issues involved in the healthcare environment, including laws and standards that protect both the healthcare professional and patient. In addition, the bioethics component of the course focuses on the study of the ethical controversies involved in the practice of medicine, including euthanasia, abortion, doctor-patient confidentiality, human and animal experimentation, genetic engineering, stem-cell research, cloning, and access to healthcare.

**SCI270 Special Topics in Science****4 Credit Hours**

Involves readings and discussions of selected topics in science. Topics will vary each quarter.

**SCI301 Addiction and Obsession****4 Credit Hours**

Explores both the biological and socio-cultural components of addiction. Compares and contrasts addictions that affect every individual regardless of socioeconomic status, race, or gender. Students will learn to assess addiction as a disease mediated by both environmental and genetic factors.

**SCI405 Bio-Ethics****4 Credit Hours**

An introduction to the ethical controversies involved in the practice of healthcare. Topics include death and dying, reproductive technologies, human and animal experimentation, biomedical advances, and disparities in healthcare.

**SCI410 Sustainable Solutions****4 Credit Hours**

Incorporates the interconnected concepts of ecology, economy, and ethics to real, practical, workable, sustainable solutions. A portfolio and presentation on designing a sustainable community, life plan, or business plan with sustainable alternatives are completed.

**SCI451 Science, Technology, and Modern Life****4 Credit Hours**

In this course students study some of the ways that our social lives, our health, and our professional lives have been affected by recent advances in science and technology.

**SCI470 Special Topics in Science**

**4 Credit Hours**

Special topics in scientific understanding are studied in depth at an advanced level.

Prerequisite: Any 200-level course in Science