

HEALTH SCIENCE (HLS)

HLS-1000 Introduction to Healthcare (2 semester hours)

This course will introduce and prepare students for a career in healthcare. It will develop critical thinking and problem-solving methods necessary for future healthcare professionals, professional behaviors and attributes necessary to become a successful healthcare practitioner, introduce the language of healthcare, discuss major developments in healthcare today, and explore a variety of healthcare professions.

HLS-1100 Medical Terminology (2 semester hours)

This course is designed to teach word roots, combining forms, suffixes, and prefixes to develop an understanding of health care terms. Definitions, spelling and the use of correct abbreviations are emphasized. The course content is organized around body systems and emphasizes terminology and applications related to the health and fitness career fields.

HLS-1810-9 Selected Topics in Health Science (Variable semester hours)

This course will address a specific area of study in health science not already covered by other course offerings. Prerequisites vary by topic.

HLS-2020 Culturally Competent and Interprofessional Healthcare (4 semester hours)

This course examines the roles and responsibilities of all health professionals and will prepare health science students to provide care in a collaborative team. A second goal of this course is to expand our cultural understanding and develop the skills necessary to appreciate, interpret, and communicate with others in a competent way. Students will develop positive attitudes towards cultural differences, and gain knowledge and understanding of cultural practices which define what cultural competence means within the context of medicine, healthcare, and community health.

HLS-2650 Essentials of Anatomy and Physiology (4 semester hours)

This course explores the interrelationship between structure and function in the human body at the macro, micro, and cellular levels, with an emphasis on how physiological mechanisms operate to maintain homeostasis. Topics include tissues, thermoregulation, and the major body systems (i.e., integumentary, skeletal, muscular, nervous, endocrine, cardiac, respiratory, digestive, renal, and reproductive).

HLS-2660 Anatomy and Physiology I (4 semester hours)

This course is the first of a two-course sequence that provides a detailed study of the relationship between structure and function of the human organism. Topics include physical and chemical principles related to the major organ systems, including integumentary, muscular, skeletal, nervous, and the sensory systems. Laboratory experiences for Anatomy and Physiology I will reinforce lecture material through the use of models, dissection, and various modes of technology.

Additional fee required

HLS-2670 Anatomy and Physiology II (4 semester hours)

This course is the second of a two-course sequence that provides a detailed study of the relationship between structure and function of the human organism. Topics include the endocrine, digestive, respiratory, cardiovascular, immune, reproductive, and urinary systems, with discussion of acid-base and electrolyte balance. Laboratory experiences for Anatomy and Physiology II will reinforce lecture material through the use of models, dissection, and various modes of technology.

Prerequisite(s): HLS-2660 with a grade of "C" or better.

Additional fee required

HLS-2810-9 Selected Topics in Health Science (Variable semester hours)

This course will address a specific area of study in health science not already covered by other course offerings. Prerequisites vary by topic.

HLS-3000 Epidemiology (4 semester hours)

This course allows students to examine the principles and methods used in epidemiology, particularly as it relates to community health, including the types of study designs used in health research, disease screening, and infectious disease outbreak. Students will develop critical thinking and application skills as they utilize an epidemiological approach to health science.

Additional fee required

HLS-3010 Healthcare Ethics (4 semester hours)

The course will examine the foundations of ethics as it applies to ethical decision-making in healthcare fields. Students will develop a formalized process to examine a wide variety of ethical dilemmas encountered in health and medicine and will rely on ethical principles and virtues, moral theorists, and empathy to make complex ethical decisions.

HLS-3020 Evidence-Based Healthcare (4 semester hours)

This course is designed to provide students with foundational knowledge and clinical application of the principles of Evidence-Based Practice (EBP). Students will learn to research evidence and also learn how to use and communicate those findings to inform clinical practice. Students will learn the different models of EBP and how to rate the quality of the evidence based on current best practices.

HLS-3050 Pathophysiology (4 semester hours)

This course surveys the principles and mechanisms of disease on the cellular and organismal levels. Topics include the immunologic, inflammatory, genetic, nutritional and neoplastic mechanisms of disease, and reviews the major diseases of each organ system.

Prerequisite(s): BIO-2670 with a grade of "C" or better.

HLS-3810-9 Selected Topics in Health Science (Variable semester hours)

This course will address a specific area of study in health science not already covered by other course offerings. Prerequisites vary by topic.

HLS-4810-9 Selected Topics in Health Science (Variable semester hours)

This course will address a specific area of study in health science not already covered by other course offerings. Prerequisites vary by topic.