

HEALTH SCIENCES (HSCI)

HSCI 1000 - Introduction to Health Sciences

Credit(s): 1 Credit

Introduction to health sciences and health information management is designed to familiarize students with the various careers in the allied health and medical professions. Student will learn skills necessary for their healthcare career pathway including: working with others, communication skills, legal and ethical responsibilities, cultural and geriatric considerations in the healthcare industry, problem solving, decision making, accepting personal responsibility and self-management.

Restrictions:

Enrollment is limited to students with a program in Health Sciences.

HSCI 2000 - The US Health Care System

Credit(s): 3 Credits

The purpose of this course is to introduce the U.S. Healthcare system and identify the impact historical and current healthcare policies have had or may have on healthcare delivery. Global healthcare systems will also be explored. After 4 weeks of restriction to HIMH, HSCI, MRI, NMT, and RADT, it is open to UPS minors.

Restrictions:

Enrollment is limited to students with a program in Health Information Mgmt, Health Sciences, Magnetic Resonance Imaging, Nuclear Medicine Tech or Radiation Therapy.

Attributes: International Studies-Health, Urban Poverty - Health Care

HSCI 2100 - Health Care Management

Credit(s): 3 Credits

This course will discuss management and project management from the standpoint of a healthcare manager who must organize, plan, implement and control tasks. Students will learn to apply management theory and project management tools and techniques to achieve an organization's schedule, budget and performance objectives.

Restrictions:

Enrollment is limited to students with a major in Health Information Mgmt, Health Sciences, Magnetic Resonance Imaging, Nuclear Medicine Tech or Radiation Therapy.

HSCI 2200 - Medical Terminology

Credit(s): 3 Credits

This comprehensive online course teaches the basic language related to medical science and allied health professions; word analysis, construction, pronunciation, spelling, definition, and use of terms pertaining to anatomy, pathology, disease, abbreviations, and medical procedures. After 4 weeks of Doisy College restricted registration, it is open to all students in the University. (Offered each semester)

Restrictions:

Enrollment limited to students in the Doisy College Health Sciences college.

HSCI 2500 - Human Development across the Lifespan

Credit(s): 3 Credits

This course will explore the developmental process throughout the life span including physical, motor, social and some personality development.

Restrictions:

Enrollment limited to students in the Doisy College Health Sciences college.

HSCI 3200 - Aspects of Health Law

Credit(s): 3 Credits

The course will provide the student with the study of the US healthcare system including legislation, regulations, and standards as they apply to the practice of medicine. (Offered in Fall)

Prerequisite(s): (HSCI 2000* with a grade of C or higher or IPE 2100 with a grade of C or higher)

* Concurrent enrollment allowed.

Restrictions:

Enrollment is limited to students with a program in Health Sciences, Magnetic Resonance Imaging, Nuclear Medicine Tech or Radiation Therapy.

HSCI 3300 - Anatomy & Physiology I

Credit(s): 3 Credits

This course provides a comprehensive study of the structure and function of the human body. Topics include anatomical terminology; body organization; homeostasis; cytology; histology; and the integumentary, skeletal, muscular, and nervous systems. After 4 weeks of Doisy College restricted registration, it is open to all students in the University. (Offered in Fall)

Prerequisite(s): (HSCI 2200 with a grade of C or higher or HSI 2200 with a grade of C or higher); (BIOL 1240 with a grade of C or higher, BIOL 1260 with a grade of C or higher, CHEM 1110 with a grade of C or higher, CHEM 1120 with a grade of C or higher, or CHEM 1080 with a grade of C or higher)

Restrictions:

Enrollment limited to students in the Doisy College Health Sciences college.

HSCI 3310 - Anatomy & Physiology I Lab

Credit(s): 1 Credit

This lab is a supplement to the Anatomy and Physiology I lecture (HSCI 3300) and will cover the same topics. Laboratory work includes interactive study using detailed models, microscopic study, lab activities, multimedia presentations, and group learning. After 4 weeks of Doisy College restricted registration, it is open to all students in the University.

Prerequisite(s): (HSI 2200 with a grade of C or higher or HSCI 2200 with a grade of C or higher); (BIOL 1240 with a grade of C or higher, CHEM 1110 with a grade of C or higher, BIOL 1260 with a grade of C or higher, CHEM 1120 with a grade of C or higher, or CHEM 1080 with a grade of C or higher)

Restrictions:

Enrollment limited to students in the Doisy College Health Sciences college.

HSCI 3400 - Anatomy and Physiology Lecture II**Credit(s): 3 Credits**

This course is a continuation of Anatomy and Physiology I (HSCI 3300). Topics include general and special senses; hemocytology; fluid and electrolyte balance; and the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. After 4 weeks of Doisy College restricted registration, it is open to all students in the University. **Prerequisite(s):** (HSI 2200 with a grade of C or higher or HSCI 2200 with a grade of C or higher); (BIOL 1240 with a grade of C or higher, BIOL 1260 with a grade of C or higher, CHEM 1110 with a grade of C or higher, CHEM 1120 with a grade of C or higher, or CHEM 1080 with a grade of C or higher)

Corequisite(s): HSCI 3410**Restrictions:**

Enrollment limited to students in the Doisy College Health Sciences college.

Attributes: Bio-Chemical Biology Elective**HSCI 3410 - Anatomy & Physiology II Lab****Credit(s): 1 Credit**

This lab is a supplement to the Anatomy and Physiology II lecture (HSCI 3400) and will cover the same topics. Laboratory work includes interactive study using detailed models, microscopic study, lab activities, multimedia presentations, and group learning. After 4 weeks of Doisy College restricted registration, it is open to all students in the University. **Prerequisite(s):** (HSI 2200 with a grade of C or higher or HSCI 2200 with a grade of C or higher); (BIOL 1240 with a grade of C or higher, BIOL 1260 with a grade of C or higher, CHEM 1110 with a grade of C or higher, CHEM 1120 with a grade of C or higher, or CHEM 1080 with a grade of C or higher)

Corequisite(s): HSCI 3400**Restrictions:**

Enrollment limited to students in the Doisy College Health Sciences college.

Attributes: Bio-Chemical Biology Elective**HSCI 3510 - Physiological Processes in the Human Body****Credit(s): 3 Credits**

An introductory course in the fundamental mechanisms of human physiology. Emphasis is given to the interrelationships amongst the systems that maintain homeostasis in the human body within normal and abnormal physiological functions.

HSCI 3700 - Research Methods**Credit(s): 3 Credits**

This course will define research methods and its importance for improving the health care of society. This course will also focus on the research process and the relationship between theory, data and statistical methods. Lab includes sessions in R Studio.

Prerequisite(s): (MATH 1300 with a grade of C or higher, STAT 1300 with a grade of C or higher, or OPM 2070 with a grade of C or higher); ENGL 1900 with a grade of C or higher; CMM 1200* with a grade of C or higher

* Concurrent enrollment allowed.

Restrictions:

Enrollment is limited to students with a major in Health Information Mgmt, Health Sciences, Magnetic Resonance Imaging, Nuclear Medicine Tech or Radiation Therapy.

Attributes: UUC:Collaborative Inquiry, UUC:Writing Intensive**HSCI 3800 - Epidemiology****Credit(s): 3 Credits**

This course is an overview of epidemiological investigation, including introduction to the tools of descriptive and basic analytical epidemiology, as well as basic socio-demographic concepts. Basic concepts in statistical inference are discussed as they relate to epidemiological applications.

HSCI 3910 - Internship**Credit(s): 1-3 Credits** (Repeatable for credit)

An internship is designed to help students learn by experience, make connections between their classroom learning and the workplace, and prepare for their careers. The internship may be paid or unpaid. The HSCI 3910 Internship in Health Sciences is an opportunity for a basic and introductory internship experience. Students may work with the internship site supervisors to explore health sciences, health care delivery, and health care operations.

Attributes: UUC:Reflection-in-Action**HSCI 3930 - Special Topics****Credit(s): 1-3 Credits** (Repeatable for credit)**HSCI 4000 - Neuroscience in Everyday Life****Credit(s): 3 Credits**

This course will explore the translation of neuroscience into understanding our behavior and actions in daily life. Broad applications for life decisions such as education, employment, sexuality, health and lifestyle will be explored, in addition to understanding adverse health events such as a stroke, traumatic brain injury, dementia, developmental defects, and mental health disorder in the context of neuroscience as it is applied to life choices. (Offered every Fall)

Prerequisite(s): HSCI 3300 with a grade of C or higher; (HSCI 3310 with a grade of C or higher or HSCI 3400 with a grade of C or higher); (HSCI 3410 with a grade of C or higher or PPY 2540 with a grade of C or higher); ANAT 1000 with a grade of C or higher

Restrictions:

Enrollment is limited to students with a major in Health Sciences.

HSCI 4100 - Healthcare Technology and Informatics**Credit(s): 3 Credits**

This course will explore the use and management of technology in healthcare and how it is changing the practice of medicine. (Offered in Fall)

Prerequisite(s): (HSCI 2000 with a grade of C or higher or IPE 2100* with a grade of C or higher)

* Concurrent enrollment allowed.

Restrictions:

Enrollment is limited to students with a major in Health Sciences.

HSCI 4500 - Hot Topics in Health Care**Credit(s): 3 Credits**

This course will focus on examining key issues confronting healthcare today. The students will reflect on current issues and trends facing healthcare.

Prerequisite(s): HSCI 3200 with a grade of C or higher

Restrictions:

Enrollment is limited to students with a major in Health Sciences.

HSCI 4600 - Consumer Healthcare Technology**Credit(s): 3 Credits**

This course will teach students how to bridge the gap between patients and their health resources. They will determine the consumer's needs for health information and will include health literacy issues and the personal health record.

Prerequisite(s): HSCI 3200 with a grade of C or higher

Restrictions:

Enrollment is limited to students with a major in Health Sciences.

HSCI 4700 - Quality Management and Performance Improvement**Credit(s): 3 Credits**

This course focuses on basic elements to achieve safe, efficient, and quality health care. Human resources in healthcare present the concepts and tools for understanding healthcare employment industry and the challenge of managing healthcare employees. Healthcare quality management presents the basic principles and techniques of quality management in healthcare to achieve safety, quality, and efficiency goals. (Offered in Spring)

Prerequisite(s): (HSI 2100 with a grade of C or higher or HSCI 2100 with a grade of C or higher); (HSCI 3700 with a grade of C or higher, HIM 4200 with a grade of C or higher, or ORES 2320 with a grade of C or higher)

Restrictions:

Enrollment limited to students with a classification of Senior.

Enrollment is limited to students with a program in Health Sciences, Magnetic Resonance Imaging, Nuclear Medicine Tech or Radiation Therapy.

HSCI 4910 - Internship**Credit(s): 1-3 Credits (Repeatable for credit)**

The HSCI 4910 Internship in Health Sciences is an opportunity for advanced internship experience. The internship may be paid or unpaid. Students may work with the internship site supervisors to continue to explore health sciences, health care delivery, and health care operations.

Attributes: UUC:Reflection-in-Action

HSCI 6080 - Directed Independent Study**Credit(s): 1 Credit**

The Directed Independent Study is a unique and flexible course offering a high-level of autonomy for each student and their faculty mentor to tailor the student's learning experience to be in alignment with their specific program of study and dissertation research. Students work closely with their faculty mentors who provide guidance, support, and expertise in the student's program of study. The course is structured in a way that provides one-on-one mentorship, allowing for personalized attention and an individualized learning plan.

HSCI 6220 - Foundations of Scholarly Excellence**Credit(s): 2 Credits**

This course is designed to equip students with fundamental skills and knowledge necessary to excel in the realm of academic scholarship. Topics include, (1) analysis of research to strengthen critical thinking skills, (2) verbal presentation strategies to a variety of audiences, (3) academic integrity, ethical conduct, and responsible research practices, and (4) scholarly reflection.

HSCI 6980 - Independent Study**Credit(s): 1-3 Credits (Repeatable up to 6 credits)**

Independent Study.

HSCI 6990 - Dissertation Research**Credit(s): 0-6 Credits (Repeatable for credit)**

Dissertation Research.