

HEALTH SCIENCES (JCHP) (HSCI)

HSCI 3XX: Health Sci Elective**Credits:** 3**College:** Jefferson College of Health Professions**Schedule Type:** Lecture**HSCI 100: Intro to Health Professions**

This course familiarizes the student with the scope, education, certification, legislation, and roles of a variety of health care professions. The structure of the U.S. health care system, along with current issues and trends related to that system, is discussed. Students review requirements for completing clinical hours in HSCI-230 and HSCI-320.

Credits: 1**College:** Jefferson College of Health Professions**Schedule Type:** Hybrid, Lecture, On-Line**HSCI 198: Health Sciences Transfer****Credits:** 3**College:** Jefferson College of Humanities & Sciences**Schedule Type:** Lecture**HSCI 201: Healthcare Career Read & Explitn**

This course helps students to further develop career readiness skills through a series of in-class activities and a week-long international trip with a healthcare focus. Course topics focus on career development best practices from personal career assessment and goal setting to a review of occupations in a range of healthcare settings. During the 1-week study away component of the course, students will explore health-related occupations in another country.

Credits: 1**College:** Jefferson College of Health Professions**Schedule Type:** Hybrid, Study Abroad**HSCI 225: Applied Statistics**

This course provides an introduction to statistics concepts and reasoning. It represents an introduction to the field of epidemiology in the context of health science. Students explore the basics of descriptive and inferential statistics with an emphasis on interpretation of statistical results, data management and generation of tables and graphs that can inform reports, evaluations, and quality improvement efforts. Applications include estimation of confidence intervals; testing statistical hypotheses for population means, proportions, and variances; and use of non-parametric tests. Students learn to use MS Excel as a software tool to enter and analyze data.

Credits: 3**College:** Jefferson College of Health Professions**Prerequisites:** MATH 102 or MATH 103 or MATH 110 or MATH 111 or MATH 112 [Min Grade: D]**Schedule Type:** Hybrid, Lecture, On-Line**HSCI 230: Intro to Healthcare**

This course introduces students aspiring to health careers to the basic principles of human interaction in the clinical setting. Ethics and current issues related to healthcare delivery are discussed. This course requires patient contact experience in a healthcare facility. Students may be required to obtain legal and health clearances to complete clinical hours. The costs for these clearances are the student's responsibility. Not to be taken concurrently with HSCI-320 except by permission of program director.

Credits: 2**College:** Jefferson College of Health Professions**Schedule Type:** Hybrid, Lab, Lecture, Lecture/Lab, On-Line**HSCI 231: Intro to Health Care & Comm**

This course explores current issues in health care, and principles of patient-provider communication in clinical settings. Designed for pre-health profession students, this course includes required patient contact experience in a healthcare setting.

Credits: 3**College:** Jefferson College of Health Professions**Schedule Type:** Hybrid, Lecture, Seminar**HSCI 301: Health, Law & Ethics**

This course provides students with the foundation to recognize, understand, and resolve legal and ethical issues associated with contemporary healthcare. It represents an introduction to the US legal system and the basics of ethical and bioethical issues. Students explore liability, conflict management, the consent process, and the business of medicine, privacy and the role of an ethics. Additionally, students debate the ethical and legal consequences of contemporary health-related issues (such as end-of-life dilemmas, surrogacy, and organ donation).

Credits: 3**College:** Jefferson College of Health Professions**Prerequisites:** WRIT 201 or WRIT 202 [Min Grade: D]**Schedule Type:** Lecture, On-Line**HSCI 302: Clin Research in Emerg Med**

This course, designed for students in undergraduate health science programs, trains students to conduct clinical research studies using a combination of didactic and hands-on learning. Students will develop the necessary skills to identify potential candidates, perform interviews, obtain informed consent, carry out data collection, and process specimens according to study protocols. Students work closely with emergency physicians, nursing staff, and research coordinators on a wide range of studies including multicenter NIH-funded and industry-sponsored clinical trials. In addition, students will participate in a variety of clinical skills sessions taught by emergency medicine faculty, including wound management, ultrasonography, as well as workshops on design in medicine hosted by JeffDESIGN faculty. STUDENTS MUST OBTAIN PERMISSION FROM THE HSCI PROGRAM DIRECTOR FOR ENROLLMENT. Students will be invited for a brief interview with the Course Director to receive approval to register for the course. During the interview, students will need to show proof of completion and approval of hospital credentialing requirements at least 8 weeks prior to the start of the term.

Credits: 3**College:** Jefferson College of Health Professions**Prerequisites:** BIOL 202 and BIOL 202L [Min Grade: B-]**Schedule Type:** By Appointment - 1 student, By Appointment - 2 students, By Appointment - 3 students, By Appointment - 4 students, Hybrid, Lecture, On-Line

HSCI 304: Nutrition and Health

This lecture and case-based discussion course provides students with an overview of principles of nutrition and the role health care providers play in the support of healthy eating goals. It has been estimated that over 1/3rd of the U.S. population is obese, with children becoming increasingly susceptible. Through lecture, research, and presentations, the concepts of the life cycle, growth and development, and how nutrition interfaces with all aspects of these processes will be presented. The major determinants of health, the causes of disease, and the impact of nutrition counseling on disease prevention and treatment will be discussed with an emphasis on supportive nutritional counseling.

Prerequisite BIOL-103/L or BIOL-110/L

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: (BIOL 103 and BIOL 103L) or (BIOL 112 and BIOL 112L) [Min Grade: D]

Schedule Type: Hybrid, Lecture, On-Line

HSCI 305: Concepts in Fitness & Wellness

The link between exercise and disease prevention or progression has been well established. Yet while most Americans believe that physical activity can promote better health, approximately half of all US adults do not achieve the recommended amount of daily physical activity. Through lecture, research, and hands-on skills this course aims to give students in health and science majors the background in exercise physiology, fitness and wellness principles, and measure of physical fitness in order to recommend and implement a sound fitness and wellness program for people of all ages to prevent or limit progression of a variety of medical conditions.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: (BIOL 103 and BIOL 103L) or (BIOL 112 and BIOL 112L) [Min Grade: D]

Schedule Type: By Appointment - 1 student, Hybrid, Lecture

HSCI 306: Intro to Exercise Physiology

This course is designed to provide the student with applied knowledge relative to the human's physiologic responses to exercise and other environmental stresses. Topics include; nutrition, energy metabolism, respiratory, cardiovascular, and neuromuscular physiology, environmental factors, and applied physiology. Basic laboratory procedures and tests in the field of exercise physiology are designed to complement the lecture area. This is a writing intensive course.

Prerequisite: BIOL-201, BIOL-201L; BIOL-202, BIOL-202L; Minimum grade C.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: (BIOL 201 and BIOL 201L) and (BIOL 202 and BIOL 202L) [Min Grade: C]

Schedule Type: Lecture

HSCI 307: Introduction to Kinesiology

This course provides an introduction to the discipline of kinesiology and an examination of the study of physical activity from the perspectives of experience, research, and professional practice. Specifically, it is an introduction to the fundamental biophysical principles of human movement and their relationship to fitness and activity. The class also introduces students to the sub-disciplines of Kinesiology including Sport Psychology/Sociology, Motor Behavior/Motor Learning, Biomechanics, Exercise Physiology among other topics. Prerequisite: BIOL-201 BIOL-201L; Minimum grade C.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: BIOL 201 and BIOL 201L [Min Grade: C]

Schedule Type: Lecture

HSCI 308: Women's Health

Students will look at the intersection of gender, health, and illness through different disciplinary perspectives. Health is conceptualized not only as the absence of disease, but as the result of individual, cultural, social, legal, and environmental influences. Illnesses that disproportionately affect women are examined through a variety of lenses. The course provides for focused exploration of social determinants of health and cultural considerations with a special emphasis on gender throughout the lifespan.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 [Min Grade: D]

Schedule Type: Hybrid, Lecture

HSCI 309: Children's Health

This course examines contemporary trends in the delivery of children's healthcare. Students will explore how social and environmental factors affect health, and the impact that allocation of healthcare resources has on health delivery.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 [Min Grade: D]

Schedule Type: Hybrid, Lecture/On-Line, On-Line

HSCI 310: Emergency Medical Technician

"This hybrid course prepares students to handle emergencies using basic-life support equipment in accordance with objectives of the US Department of Transportation National Standard Curriculum. It includes training in American Heart Association (AHA) Basic Cardiac Life Support (BLS), and prepares students for the Pennsylvania Department of Health Emergency Medical Technician-Basic (EMT) examination process. Lab fee will be assessed. Enrollment restricted to 3+2 HSCI BS/Physician Assistant and HSCI BS/Pre-Physician Assistant majors. Also offered as HSCI 610. Enrollment restricted to MS Athletic Training students.

Credits: 3

College: Jefferson College of Health Professions

Schedule Type: By Appointment - 1 student, By Appointment - 2 students, By Appointment - 3 students, By Appointment - 4 students, By Appointment - 5 students, Hybrid

HSCI 311: Intro to Nursing

This course introduces students to the nursing profession by exploring the evolution of nursing practice, and the profession's values such as empathy, professionalism, and human dignity. Students will explore reflective practice, time management, and becoming self-motivated learners as they relate to the student nurse role. This hybrid course uses multiple teaching-learning strategies to prepare pre-nursing students to seamlessly transition into their professional nursing education.

Prerequisite: WRIT 2XX

Credits: 2

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 215 or WRIT 217 [Min Grade: D]

Schedule Type: Hybrid

HSCI 313: Cur Issues in Comm Hlth

Students will learn to assess the causes and conditions that impact health across diverse communities. This course will discuss topics such as social determinants of health, health disparities and inequities, program planning and evaluation, and moral and ethical decision making in community health.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 215 or WRIT 217 [Min Grade: D]

Schedule Type: By Appointment - 1 student, Hybrid, Lecture, On-Line

HSCI 314: Medical Cannabis

In this course students learn about the cultural and social history of cannabis; some of the rapidly developing trends in cannabis business, laws and regulations; and major aspects of cannabis science, from a layman's perspective.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 217 or WRIT 215 [Min Grade: D]

Schedule Type: Hybrid, Lecture

HSCI 315: Health & Wellness Coaching

Students will learn about and engage in course activities related to health and wellness coaching through a lifespan health perspective. In particular, students will consider the mind and body as a whole, review coaching and behavioral change theories, and develop individual health and wellness plans. This course fulfills the Health Sciences major writing intensive requirement.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 215 or WRIT 217 [Min Grade: D]

Schedule Type: Hybrid, Lecture

HSCI 316: Perspectives on Aging

This course examines the biological, psychological, social, cultural, and environmental factors that influence quality of life as individuals age. Students will explore concepts related to aging successfully and how to apply these insights to clinical practice.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 215 or WRIT 217 [Min Grade: D]

Schedule Type: Hybrid, Lecture, On-Line

HSCI 320: Clinical Interactions

Clinical Interactions This experiential, independent-study course includes an extended community-service volunteer experience (150 hours) in a health care setting. Students are required to complete and submit activity logs, a final paper, and an evaluation from their supervisor. Students may require background check and other clearances to complete clinical hours. Prerequisite: HSCI-230.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: HSCI 230 or HSCI 231 [Min Grade: D]

Schedule Type: On-Line

HSCI 330: Medical Terminology

This hybrid course is designed for students in undergraduate health science programs and focuses on the structure and use of medical language and common documentation formats. It also includes an introduction to medical informatics. Clinical cases are utilized to illustrate the use of medical terminology in the health care setting. Prerequisite: BIOL-201, BIOL 201L or permission of program director.

Credits: 3

College: Jefferson College of Health Professions

Prerequisites: BIOL 201 and BIOL 201L [Min Grade: D]

Schedule Type: Hybrid, On-Line

HSCI 371: Special Topics in Health

This course explores topics in health sciences not developed in other courses. Examples include health and technology, women's health, children's health, healthy aging, and special population health. Students may take this course more than once as the topics differ each time it is offered. Prerequisite: WRIT 2XX

Credits: 1-3

College: Jefferson College of Health Professions

Prerequisites: WRIT 201 or WRIT 202 or WRIT 211 or WRIT 215 or WRIT 217 [Min Grade: D]

Schedule Type: Hybrid

HSCI 398: Transfer Health Sci Elective

Credits: 3

College: Jefferson College of Health Professions

Schedule Type: Lecture