HEALTH SCIENCE (HLTH)

HLTH 120 | EXPLORING THE HEALTH SCIENCES | 2-4 quarter hours
(Undergraduate)
This course explores the growing and complicated landscape of the health professions. Students will explore a broad range of careers available to people interested in the health of communities and individuals, helping them to identify their own skills, interests, and values. Designed for students in all majors who are interested in exploring a professional interest in health sciences, this course will include aspects of self-assessment and career exploration, health industry research, and connecting with individuals in the field. (2 quarter hours)

HLTH 133 | PREPARING FOR APPLICATION TO HEALTH PROFESSIONS | 2 quarter hours
(Undergraduate)
The course is designed for DePaul students who are planning to apply in the current year to a graduate-level health professional program including dental, medicine, optometry, veterinary medicine, physician assistant, physical therapy, and podiatry. This course is especially helpful for students planning to participate in the Pre-Health Advising Committee during the current academic year. The goal for this course is to provide students with information about what applying to professional school will entail along with providing students an opportunity to prepare documents for their application. Class-time will include discovering student’s interest in a clinical profession, learning how to articulate personal fit with their health profession of interest, creating a personal statement, mock interviews, and learning how to identify criteria for choosing target schools. To enroll, students must meet Pre-health Advising Committee eligibility.

HLTH 140 | MEDICAL TERMINOLOGY | 2 quarter hours
(Undergraduate)
This course introduces the student to the specialized vocabulary of the Health Care environment. Terminology used in medical professions will be learned with an emphasis on understanding word roots and building vocabulary. Through studying each system of the body, terminology will be associated with specific anatomy, physiology, functions and minimal pathology of the human body. (2 quarter hours)

HLTH 150 | DISCOVERING DISEASE: SMALL POX, HIV, AND ZIKA | 4 quarter hours
(Undergraduate)
This course will introduce students to science as a way of knowing through the examination of three viral diseases: Small Pox, HIV/AIDS and the Zika virus. In each case we will start by examining early understandings of the illness and then build towards a general biological theory of disease. Specifically, we will study the key observations that were made, and the evidence that was gathered in order to construct a theory of these three diseases that could then be translated into medical treatments. Special attention will be paid to the significant missteps that occurred as scientists struggled to understand the nature of these diseases. A key assumption of this course is that the dead ends and wrong turns encountered during the scientific process are a crucial component of scientific discovery. Each section will conclude with an overview of the most current scientific knowledge of the disease, including current treatments and prevalence levels around the world.

HLTH 194 | HUMAN PATHOGENS AND DEFENSE | 4 quarter hours
(Undergraduate)
This course will introduce students to the diverse microorganisms that cause significant disease within the human population. The biological basis of infectious disease will be explored with a focus on the mechanisms of viral and bacterial infection and spread. The principles behind tools used combat infection will be examined, including antiseptics, antibiotics/antivirals, and vaccination. The course also will profile how the human microbiome promotes health. The course is not appropriate for students who have taken BIO 210. Students practice standard microbial techniques in the laboratory, including bacterial culture, microscopy, antimicrobial testing, and species identification. A grade of C- or higher in BIO 191 is a prerequisite for this class.

HLTH 195 | HUMAN FORM AND FUNCTION | 4 quarter hours
(Undergraduate)
This course provides a foundation for studying biological functioning of the human organism. Students will explore the basic principles of chemistry, cellular and molecular biology, and human genetics. In addition, we will examine the integral relationship between form and function that has evolved into the human body, with particular attention paid to the investigation of tissue organization, the biology of movement, and critical organ systems (nervous, endocrine, cardiovascular, and urinary). Related topics in human health and disease will also be discussed. Students practice standard microbial techniques in the laboratory, including bacterial culture, microscopy, antimicrobial testing, and species identification. A grade of C- or higher in BIO 191 is a prerequisite for this class.

HLTH 201 | INTRODUCTION TO HEALTH SCIENCE | 4 quarter hours
(Undergraduate)
This course introduces students to the B.S. in Health Sciences undergraduate program. The course aims to introduce students to the range of disciplines (biological, sociological, psychological, and political) found within the health sciences, and how each contributes to our understandings of human health and illness. This will allow the students to better understand the nature of health care delivery and the methods that will best improve the health status of both individuals and the population.

HLTH 202 | HEALTH RESEARCH LITERACY | 4 quarter hours
(Undergraduate)
The purpose of this course is to provide students the methodology and skills required for literacy in health, and to comprehend the results of health sciences research. In this course students seeking careers in the health sciences will go beyond the health literacy level suggested for the general public in preparation for professional practice in clinical, policy, administrative, and basic science fields. HLTH 201 is a prerequisite for this class.

HLTH 210 | INTRODUCTION TO PUBLIC HEALTH | 4 quarter hours
(Undergraduate)
This course is designed to lay out the concepts, principles, and case outcomes of public health practice. It considers community health data source, classical intervention approaches, and the planning and evaluation of community health interventions. HLTH 201 and 202 are a prerequisite for this class.
HLTH 210 or department permission is a prerequisite for this class.

Epidemiology is generally considered to be the basic science of disease prevention. It encompasses the study of the distribution and determinants of health-related conditions in specified populations, and the application of this study to control health problems. This course will introduce students to methods employed by epidemiologists to collect data about the health of populations, to use epidemiologic data to generate and test hypotheses about the relationships between exposure and disease or other health conditions, and to use epidemiologic data that informs interventions and public policy that will address health problems and prevent their recurrence.

Special topics in health sciences course designed for non-majors, or it may be used as an open elective for health sciences majors.

This course explores the fundamental principles of human anatomy and physiology that specifically relate to the sensation and perception of environmental stimuli, as well as the response to such challenges. In this context, broad consideration will be given to the body's various modes of cellular and tissue communication, with special emphasis on the interplay between the integumentary, skeletal-muscular, nervous, and endocrine systems. In addition, the integrated approach will provide a strong foundation for the serial investigation of relevant topics relating to human health and disease, and clinical intervention. The required weekly laboratory component allows students to integrate and apply theory based lecture knowledge to hands-on anatomic and physiologic exercises, as well as provide critical analysis of course learning outcomes.

BIO 193 and (CHE 134 or CHE 138) are a prerequisite for this class.

This course explores the fundamental principles of human anatomy and physiology that specifically relate to the dynamic integration of critical organ systems. With the cardiovascular system as a starting point, students will investigate the complex orchestration of homeostatic mechanisms regulated by the respiratory, digestive, urinary, and reproductive systems. As with HLTH 301, the integrated approach will provide a strong foundation for the serial investigation of relevant topics relating to human health and disease, and clinical intervention.

HLTH 301 is a prerequisite for this class.

Epidemiology is generally considered to be the basic science of disease prevention. It encompasses the study of the distribution and determinants of health-related conditions in specified populations, and the application of this study to control health problems. This course will introduce students to methods employed by epidemiologists to collect data about the health of populations, to use epidemiologic data to generate and test hypotheses about the relationships between exposure and disease or other health conditions, and to use epidemiologic data that informs interventions and public policy that will address health problems and prevent their recurrence.

LSP 121 or a statistics course

This course provides an overview of maternal and child health issues and trends that impact the health needs of women, children, and families. The course will involve a historical and current examination of the principles, programs, policies, and practices related to maternal and child health populations.

HLTH 210 is a prerequisite for this class.
HLTH 318 | HEALTH OF AGING POPULATIONS | 4 quarter hours (Undergraduate)
This course will address social science and basic science research, practice, and policy on the health of older populations. The rapidly increasing number and diversity of older Americans has broad implications for our health care and public health systems, as there will be an unprecedented demand on health care delivery and aging-related services. This course will introduce Health Sciences students to topics like the sociocultural and economic status of aging populations, theories of aging, aging policies, and aging health services. One objective of this course is to provide a foundation of aging health knowledge that can be utilized by Health Sciences students in future academic or professional careers.
HLTH 210 is a prerequisite for this class.

HLTH 320 | MOLECULAR VIROLOGY | 4 quarter hours (Undergraduate)
This lecture/seminar course is designed for students interested in the molecular details of virus replication and the interactions between viruses and host cells. Virus families that cause human disease are highlighted, however this course does not focus on the clinical aspects of virus infection and treatment. Students will review primary research articles and participate in group analyses of these works. Successful completion of BIO 250 Cell Biology is recommended prior to enrollment. BIO 210 or BIO 250 is a prerequisite for this class.

HLTH 325 | PHYSIOLOGY OF POVERTY | 4 quarter hours (Undergraduate)
Low socioeconomic status is associated with psychological stress, nutritional challenges, circadian disruption, and toxin exposure. This course will consider the effects of these stressors on cardiovascular, metabolic, immunological, and neurological human health. This course will integrate findings from physiology, public health, epidemiology, psychology, and sociology.
HLTH 202 and (BIO 193 or (HLTH 194 & HLTH 195)) are prerequisites for this class.

HLTH 329 | HEALTH HUMANITIES | 4 quarter hours (Undergraduate)
The humanities and arts provide a unique insight into the human condition, suffering, personhood, and our relationship to medical and health technology. Through these practices, one can develop skills of observation, analysis, empathy and self-reflection, all of which are necessary for the provision of humane health care. In this course, students will explore health and medicine through the lenses of the humanities (literature, philosophy, ethics, history) and the arts (literature, theater, film, and visual arts).
Status as a junior and WRD 103 and 104 (or HON 100 and HON 101) are prerequisites for this class.

HLTH 330 | HEALTH LEADERSHIP | 4 quarter hours (Undergraduate)
Health Leadership will prepare students for health leadership in diverse health care settings such as hospitals, public health departments, and community-based agencies. Students will identify and examine their own leadership skills, learn ways to build upon those skills for application in current and future career leadership roles, and gain new knowledge about health leadership trends and practice. The course will integrate lectures, multi-media, case studies, discussions, and reinforcing activities to develop and strengthen health leadership skills.
HLTH 210 is a prerequisite for this class.

HLTH 335 | COMMUNITY HEALTH ASSESSMENT | 4 quarter hours (Undergraduate)
This course covers a range of community assessment processes focusing on health indicators within communities in Chicago. Students will be introduced to multiple data sources and methods. Implications of assessments will be framed within community health assessment requirements under the Affordable Care Act (ACA), as well as broader community needs and resources.
HLTH 210 is a prerequisite for this class.

HLTH 336 | PROGRAM EVALUATION | 4 quarter hours (Undergraduate)
This course will introduce students to methods in program evaluation, including process evaluation, monitoring of outputs and outcomes, impact assessment, and cost analysis. Students will gain practical experience in the design of conceptual frameworks, development of indicators, development of an evaluation plan to measure impact. Students will learn how this information can be used to improve program management and effectiveness. The course will cover experimental, quasi-experimental, and non-experimental study designs, and consider the strengths and limitations of each.

HLTH 339 | BIOETHICS IN SOCIETY CAPSTONE SEMINAR | 4 quarter hours (Undergraduate)
This seminar is an interdisciplinary study of the function of bioethics in society. As a discipline and as a profession, bioethics stands as a distinctive barometer of our evolving and shifting conceptions not only of health and well-being, but of the world, society, and even ourselves. The seminar explores the history of bioethics, bioethics as a clinical practice, and the various questions that arise at this crossroad from health science, medical humanities, religious studies, sociological, and philosophical perspectives.
PHL 229 or HLTH 229 or REL 229 is a prerequisite for this class.

HLTH 341 | DEATH AND DYING | 4 quarter hours (Undergraduate)
As the only species that is aware of its own mortality, this course examines the human experience of death and dying as a biological, medical, legal, social, and cultural process throughout time. Students will learn about the biological breakdown of the body, hospice & palliative care, advance care planning, funerary and mourning practices, disposal of the human body, and beliefs of what happens after death.
Junior Standing or above is a prerequisite for this class.

HLTH 350 | HEALTH SCIENCES CAPSTONE | 4 quarter hours (Undergraduate)
The Senior Capstone will bring students from both concentrations in the Health Sciences major together in an opportunity to share biomedical and psycho-social perspectives in an examination of current health issues.
HLTH 210 and status as a senior Health Sciences major are prerequisites for this class.

HLTH 379 | PEER ADVISING IN HEALTH SCIENCES | 1 quarter hours (Undergraduate)
Peer Advising in Health Sciences is a course designed to connect our successful senior students with the broader population of Health Sciences majors, while providing Peer Advisors with an introduction to advising skills including active listening, providing open-minded guidance and support, interpreting university policies and guidelines, managing confidential information, and effective time management. (2 quarter hours)
HLTH 380 | TOPICS IN HEALTH SCIENCES | 2-4 quarter hours
(Undergraduate)
Upper level course focused on a specific topic in Health Sciences that involves reading of primary literature and discussion.

HLTH 399 | INDEPENDENT STUDY | 1-4 quarter hours
(Undergraduate)
INDEPENDENT STUDY (1 quarter hour)
A Health Science major is a prerequisite for this class.