
HEALTH SCIENCES STUDENT GUIDE

2019-2020

THIS GUIDE IS INTENDED TO HELP YOU SUCCESSFULLY PLAN AND COMPLETE THE BS IN HEALTH SCIENCES. WE HAVE TRIED TO INCLUDE INFORMATION YOU WILL FIND USEFUL IN SCHEDULING YOUR COURSES AND PLANNING YOUR DEGREE IN THE CONTEXT OF YOUR ACADEMIC AND PROFESSIONAL GOALS.

WE APOLOGIZE IN ADVANCE FOR ANY ERRORS OR MISTAKES IN THIS BOOKLET, AND REMIND YOU THAT THE UNIVERSITY CATALOG AT YOUR TIME OF MATRICULATION INTO A PROGRAM WILL BE THE DOCUMENT OF RECORD IN EVALUATING YOUR DEGREE REQUIREMENTS. YOU, AS THE STUDENT, ARE RESPONSIBLE FOR KNOWING AND FULFILLING YOUR DEGREE REQUIREMENTS. PLEASE LET US KNOW OF ANY ERRORS THAT YOU FIND TO THIS GUIDE, AS WELL AS ANY ADDITIONAL TYPES OF INFORMATION THAT MIGHT BE HELPFUL TO YOU AND YOUR FELLOW STUDENTS.

BE SURE TO REVIEW YOUR DEGREE PROGRESS REPORT AND TALK WITH YOUR ACADEMIC ADVISOR ON A REGULAR BASIS TO ENSURE THAT YOU ARE ON TRACK FOR COMPLETING THE MAJOR WITH THE ELECTIVES THAT BEST FIT YOUR NEEDS.

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GET CONNECTED

ACADEMIC ADVISING

The Department of Health Sciences has a staff academic advisor, located in McGowan South Suite 411, to guide you through your degree plans and to assist you in accessing resources on campus. You can find information about DePaul University's expectations for academic advising in the undergraduate student handbook. Advising is available by appointment if you call (773)325-4354, or you may schedule online using BlueStar Student Support. Walk-in advising is available during the first week of each quarter and during the first week of enrollment for each term (typically week 6).

The College of Science and Health Office of Advising and Student Services, located in McGowan South Suite 400, is also available to assist you with academic advising support. You are always welcome to reach out to them via phone at (773)325-8490 or email at CSHAdvising@depaul.edu. All students in the Pathways Honors Program, regardless of major, are advised by the CSH Office of Advising.

When you are seeking additional assistance in planning your career or graduate school endeavors, you may want to speak with a faculty member. It's important to develop relationships with your faculty, so please try to reach out to instructors in your classes for their input!

SOCIAL MEDIA

The Department of Health Sciences is pleased to bring you the latest news, resources, scholarship, job, and internship postings through social media. Follow us on Twitter and Instagram to see announcements about news in the department.

 @DepaulHealthSci

 @DepaulHealthSci

STUDENT GROUPS

There are several student groups available for students wishing to get involved with their peers in health-related activities, including the ones listed below. Descriptions of these and other student groups can be found on OrgSync. All students are encouraged to register and get involved at <http://orgsync.depaul.edu>.

DePaul Healthcare Students Organization (DHSO)
DePaul University Pre-Med Club
Global Brigades
Sports Legacy Institute Community Educators (SLICE)

Underrepresented Groups in Medicine
Public Health Student Organization (PHSO)
Student Health Advocates (SHA)
MEDLIFE
Public Health Scholars Bowl Team

HEALTH SCIENCES DEPARTMENT CONTACTS

The Department of Health Sciences is located at:
McGowan South, Suite 411
1110 W. Belden Ave
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healthsciences@depaul.edu

<http://go.depaul.edu/healthsciences>

Health Sciences is an interdisciplinary major that includes courses from many different departments. All instructors will include their contact information in your course syllabus, and are listed in the DePaul Faculty Directory <http://directory.depaul.edu/>. Faculty who are on leave will not respond to email communications. Please remember when addressing faculty throughout the university to maintain professional standards of communication.

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OUTLINE OF HEALTH SCIENCES CURRICULUM

HEALTH SCIENCES MISSION AND LEARNING OUTCOMES

The mission of DePaul University's Department of Health Sciences is to educate and train students who will collaboratively address human health from interdisciplinary natural and social scientific perspectives in order to promote health and to improve the lives of individuals and communities.

Upon graduating from DePaul with a B.S. in Health Sciences you will be able to

1. Demonstrate effective communication skills and work collaboratively with individuals and populations of varied perspectives.
2. Evaluate both natural and social science research as it applies to individual and population health.
3. Explain and understand foundational biological principles related to human health.
4. Understand and apply the scientific method and evidence-based approaches to human health.
5. Identify and analyze ethical issues in research, health, and public health.
6. Identify and understand how social determinants influence an individual's health and create health disparities.
7. Identify the core concepts and principles of public health and apply them to the promotion of health and prevention of disease.
8. Describe the components of health policy and health care systems both domestically and globally.

HEALTH SCIENCES CONCENTRATIONS

There are two concentrations available within the Health Sciences major: *BioScience* and *Public Health Sciences*. Every Health Sciences student will select a concentration. Students are encouraged to explore all aspects of health sciences and remember that these concentrations do not represent hard boundaries between fields.

The **BioScience** concentration is designed for students whose career and academic interests focus on the natural sciences and the health of individuals, working primarily in clinical care. This concentration includes three tracks: General, Medical, and Pre-Nursing. *Please note that the Laboratory Investigations track listed in the University Catalog is not encouraged, and will soon be discontinued, since a major in Biological Sciences or Chemistry would be better preparation for careers in laboratory research related to health.*

The newly revised **Public Health Sciences** concentration is for students whose career and academic interests focus in the social sciences and the health of populations through managing and reforming policy, developing interventions, and administering health care systems. The concentration does not have tracks, but encourages students to build a broad set of skills in public health and select electives to suit their interests and goals. *This concentration was preceded by the Public Health Studies concentration, which was discontinued in Autumn 2017. Students who declared the Public Health Studies concentration prior to Autumn 2017 will keep the program requirements as listed in the catalog at their declaration date unless they choose to update their requirement term and take on the requirements of the new concentration.*

Details on course requirements for concentrations and tracks can be found in the University Catalog. Please make sure that you are using the catalog published when you declared the major for your requirements, and ask your advisor if you have any concerns or questions.

HEALTH SCIENCES MAJOR CORE

All Health Sciences majors, from both concentrations, will take the following common core classes:

HLTH 201	Introduction to Health Sciences
HLTH 202	Health Research Literacy
HLTH 210	Introduction to Public Health
BIO 191	General Biology I
HLTH 350	Health Sciences Capstone
Health Ethics course (HLTH 229, REL 229, or PHL 229 are approved options)	

CONCENTRATION IN BIOSCIENCE

Health Sciences majors with a concentration in **BioScience** will take the following nine course concentration core in addition to the Health Sciences Major Core and their track requirements and electives:

BIO 192 and 193	General Biology II and III
BIO 210	Microbiology
BIO 206	Biostatistics
CHE 130 or 120/131, 132 or 122/133, 134/135	General Chemistry I or I IP, II or II IP, and III with Labs
BIO 250	Cell Biology
HLTH 301 and HLTH 302 or BIO 201 and BIO 308	Integrated Human Anatomy & Physiology A and B, or Human Anatomy and Human Physiology

BioScience Concentrators will select from one of three tracks and complete 7 additional courses for that track. Information on track requirements is available in the University Catalog and courses are listed in Appendix A.

GENERAL BIOSCIENCE

This track is for students who are interested in pursuing a career in the health sciences with a natural sciences focus. This track is flexible enough to allow students to tailor their track electives to suit the admissions requirements of a wide variety of graduate programs (eg physical therapy, occupational therapy, physician assistant). We encourage entering freshmen to start with this track and switch to one of the other tracks as their interests solidify. Requirements consist of the concentration core and 8 electives chosen from a list of approved courses.

MEDICAL

This track is for students who intend to go on to advanced degree programs in one of many health professions that require completion of organic chemistry, biochemistry, *and* physics for admission (medicine, dentistry, podiatry, and optometry). Track requirements consist of the concentration core and 7 track requirements. For some medical and graduate programs, students may have to use general electives or learning domains to take additional requirements, **and additional research into these requirements is strongly advised**. Students in this track should also be in touch with our Pre-Health Advisor to prepare for the professional school admissions process.

PRE-NURSING

This track is designed for students interested in entering professional nursing through a Master's Entry to Nursing Practice (MENP) program after graduation. Track requirements consist of the concentration core, 3 track requirements, and 4 electives chosen from the list of approved courses. This track does not result in an RN, but rather provides a broad educational background that will prepare students to become exceptional advanced degree nurses with higher compensation and better professional opportunities. Students will be assigned a faculty advisor from the School of Nursing to help with their career planning. This program is also the foundation of the 3+2 combined degree program with the MENP.

HEALTH SCIENCES/BIO SCIENCE CONCENTRATION SUMMARY

Health Sciences Major Core †	5 courses	20 credits
BioScience Concentration Core	10 courses	40 credits
Track Electives	7 courses	28 credits
Liberal Studies Program *		
First Year Program	4 courses	16 credits
Seminar on Multiculturalism	1 course	4 credits
Experiential Learning	1 course	4 credits
<i>Learning Domains</i>		
Arts & Literature	3 courses	12 credits
Philosophical Inquiry	2 courses	8 credits
Religious Dimensions	2 courses	8 credits
Social, Cultural, and Behavioral Inquiry ^α	3 courses	12 credits
Understanding the Past	2 courses	8 credits
Open Electives	8 courses	32 credits
Total	48 courses	192 credits

† The health ethics requirement for the major can be met as a Philosophical Inquiry course (PHL 229), a Religious Dimensions course (REL 229), or as a track elective (HLTH 229). Health Sciences majors may not take HLTH courses towards their liberal studies requirements per the Undergraduate Catalog.

*Transfer students who are eligible for the Illinois Articulation Initiative (IAI) will have a slightly altered Liberal Studies Program. Adjusted requirements will be reflected in the Degree Progress Report.

^αStudents who are preparing to enter medical school should plan to take SOC 101 and PSY 105 or PSY 106 in their learning domains in order to be prepared for the Behavioral Sciences section of the MCAT exam.

CONCENTRATION IN PUBLIC HEALTH SCIENCES

Health Sciences majors with a concentration in **Public Health Sciences** will take twelve core courses in addition to the Health Sciences Major Core and four track electives to provide a background in the range of theories and topics critical to understanding health care at a systemic level. [Information on the Public Health Studies concentration and tracks, discontinued in Autumn 2017, can be found online in the Archived Catalog.](#)

HLTH 194	Human Pathogens and Defense
HLTH 195	Human Form and Function
HLTH 250 or SOC 221	Health Care Policy in the US or Intro to the US Health Care System
HLTH 310	Fundamentals of Epidemiology
HLTH 335	Community Health Assessment
HLTH 336	Program Evaluation
PSY 240, MAT 242, SOC 279, or BIO 206	Statistics
SOC 351	Health Disparities
CMNS 315	Health Communication
ANT 272	Introduction to Medical Anthropology
PSY 354	Community Psychology
ANT 361, ANT 362, or SOC 365	Global Issues in Women's Health, Global History of Health, or Health and Globalization

HEALTH SCIENCES/PUBLIC HEALTH SCIENCES CONCENTRATION SUMMARY

Health Science Core †	5 courses	20 credits
Public Health Studies Core	12 courses	48 credits
Track Electives	4 courses	20 credits
Liberal Studies Program *		
First Year Program †	6 courses	24 credits
Seminar on Multiculturalism	1 course	4 credits
Experiential Learning	1 course	4 credits
<i>Learning Domains</i>		
Arts & Literature	3 courses	12 credits
Philosophical Inquiry	2 courses	8 credits
Religious Dimensions	2 courses	8 credits
Social, Cultural, and Behavioral Inquiry	3 courses	12 credits
Understanding the Past	2 courses	8 credits
Open Electives:	8 courses	16 credits
Total:	48 courses	192 credits
	(includes LSP waiver)	

† The health ethics requirement for the major can be met as a Philosophical Inquiry course (PHL 229), a Religious Dimensions course (REL 229), or as a track elective (HLTH 229). Health Sciences majors may not take HLTH courses towards their liberal studies requirements per the Undergraduate Catalog.

*Transfer students who are eligible for the Illinois Articulation Initiative (IAI) will have a slightly altered Liberal Studies Program. Adjusted requirements will be reflected in the Degree Progress Report.

† The First Year Program requirements for Public Health Sciences concentrators include LSP 120 and LSP 121, Quantitative Reasoning and Technological Literacy I and II. Students who earn credit for both LSP 120 and LSP 121 will earn a waiver in their learning domains. Students are responsible for requesting this waiver once credit for both courses has been earned.

HLTH COURSE DESCRIPTIONS

HLTH 120 Exploring Health Sciences

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. This course is a 2 credit open elective. Pre-requisites: None

HLTH 133 Preparing for Application to Health Professions

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. This course is a 2 credit open elective. Requires instructor permission and PAC eligibility.

HLTH 140 Medical Terminology

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. This course is a 2 credit open elective. Pre-requisites: None

HLTH 150 Discovering Disease: Small Pox, HIV, and Zika *(SWK Learning Domain Course for Non-HLTH majors)*

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. Pre-requisites: None

HLTH 194 Human Pathogens and Defense

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 cellular basis of the immune response will be reviewed, including the principles behind vaccinations, innate and adaptive immunity, and immune system dysfunction. The course also will profile how the human microbiome promotes health, especially within the digestive system. Pre-requisite: C- or better in BIO 191

HLTH 195 Human Form and Function

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. Pre-requisite: C- or better in BIO 191

HLTH 201 Introduction to Health Sciences

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. Pre-requisites: None

HLTH 202 Health Research Literacy

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. Pre-requisites: HLTH 201

HLTH 210 Introduction to Public Health

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. Pre-requisites: C- or better in HLTH 201 and HLTH 202

HLTH 218 Public Health Scholar Bowl Team

Students will research, prepare presentations about, and discuss public health topics such as the scourge of health disparities, the nuances of health education and promotion, and how to solve epidemiological mysteries. Students will also hone their quiz bowl skills through internal class practice rounds and complete out-of-class practice through online quizzes. The quarter culminates with student case study presentations based on the previous competition year's case study topic such as sleep disorders among college students and global health issues that can be tackled by student-led initiatives. Instructor permission required.

HLTH 229 Ethics for Health Sciences

This course provides an introduction to the ethical and moral theories that frame our response to fundamental issues in the health sciences. Moral philosophers, such as Aristotle, Thomas Aquinas and Immanuel Kant, all pose questions about the nature of right and wrong, and what is meant by a good life. The first part of the course examines the work of these philosophers and then uses them in order to think through specific topics, including: confidentiality, informed consent and end of life decision-making; health care disparities and health care reform; and global health ethics. Pre-requisites: None

HLTH 230 Fundamentals of Health Education

This course provides health education majors with a foundational understanding of the professional health education field. Students will examine health education's role in planning, implementing, and evaluating the behavioral health challenges that affect the wellbeing of individuals and communities. Students will learn and then practice designing and delivering a wide range of health education activities, grounded in behavioral change theories, in a variety of settings and to diverse audiences. Finally, students will critically examine these issues through a variety of academic experiences, including academic service in a community setting, in order to identify and apply health education practices and principles that contribute to health promotion and disease prevention. Pre-requisites: None

HLTH 236 Gay Men's Health Matters

The purpose of this course is to introduce students to health issues relevant to gay men. We will explore the effects of minority status, heterosexism, and homophobia on gay men's health, including but not limited to STD/HIV/AIDS, substance use and mental health. Students will review epidemiological data, theoretical frameworks, and community-based health promotion approaches in order to gain a broad perspective on risk and resilience factors, health indicators, and strategies for self-care applicable to gay men's health. Pre-requisites: None

HLTH 250 Healthcare Policy in the United States

This course provides students with an overview of health policy creation and describes the history of healthcare policy in the United States. Students will explore the delivery and finance of health care as well as analyze health care law and regulation. Students will gain an understanding of how political and economic policy is used to mitigate disease and illness in varied environments and how policy affects the delivery of health care and public health services. Pre-requisites: HLTH 201 or department permission

HLTH 280 Health Topics

Special topics in health sciences course designed for non-majors or as an open elective. Pre-requisites: None

HLTH 301 Integrated Human Anatomy and Physiology A

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, skeletomuscular, 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. Pre-requisites: BIO 193 and CHE 134/135.

HLTH 302 Integrated Human Anatomy and Physiology B

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. Pre-requisites: BIO 193 and CHE 134/135.

HLTH 310 Fundamentals of Epidemiology

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. Pre-requisites: LSP 121 or statistics credit (MAT 242, SOC 279, PSY 240, or BIO 206)

HLTH 315 Maternal and Child Health

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. Pre-requisite: HLTH 210

HLTH 318 Health of Aging Populations

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 320 Molecular Virology

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. Pre-requisite: C- or better in BIO 210 or BIO 250

HLTH 325 Physiology of Poverty

Low socioeconomic status is associated with psychological stress, nutritional challenges, circadian disruption, and toxin exposure. In this course, we will consider the effects of these stressors on cardiovascular, metabolic, immunological, and neurological human health. To do so, we will use two texts, "The Biological Consequences of Socioeconomic Inequalities" by Barbara Wolfe, William Evans, and Teresa Seeman (2012) and "Why Zebras Don't Get Ulcers" by Robert Sapolsky (3rd Ed), and supplement with documentaries and primary literature. We hope to integrate findings from physiology, public health, epidemiology, psychology, and sociology. While previous coursework in cellular biology and physiology will be helpful, we will work to ensure that all students have a common knowledge foundation to participate in our selected discussions. Pre-requisite: (HLTH 194+HLTH 195 OR BIO 193) and HLTH 202

HLTH 329 Medical Humanities

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, and history) and the arts (literature, theater, film, and visual arts). Pre-requisite: Junior standing and WRD 103 and 104 or HON 100 and 101

HLTH 330 Health Leadership

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. Pre-requisite: HLTH 210

HLTH 335 Community Health Assessment

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. Pre-requisite: HLTH 210

HLTH 336 Program Evaluation

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. Pre-requisite: HLTH 335

HLTH 339 Bioethics in Society Capstone Seminar

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. Pre-requisite: HLTH 229, REL 229, or PHL 229

HLTH 341 Death and Dying

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. Pre-requisite: Junior standing

HLTH 350 Health Sciences Capstone

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. Pre-requisite: HLTH 210 and Senior standing as Health Sciences major

HLTH 380 Topics in Health Sciences

Upper-level course focused on a specific topic in Health Sciences that involves reading of primary literature and discussion. Can be taken up to 3 times provided that the topics are different. Pre-requisite: Varies with course topic

HLTH 399 Independent Study

By arrangement specialized study with a Health Sciences faculty member. Students are required to make arrangements with Health Sciences faculty or instructor and complete a proposal for review by the department chair. Please note that HLTH 399 does not have a JYEL requirement designation. This course may be taken 3 times for credit, as long as the topic is different for each session. Pre-requisite: Health Sciences major.

IMPORTANT INFORMATION FOR HEALTH SCIENCES MAJORS

- Please take the time to read through the requirements in the University Catalog and make sure you understand what you need to do to successfully complete your degree. Visit <http://go.depaul.edu/catalog>. According to the Undergraduate Student Handbook, **“students bear ultimate responsibility for decisions and actions that determine their success at DePaul University.”** You will be held responsible for understanding your degree requirements and making informed decisions regarding your career planning.
- If you intend to complete a B.S. in Health Sciences, be sure that you have officially declared your major and concentration in Campus Connect. Designate your chosen concentration (BioScience or Public Health Sciences) and the appropriate track as required in order to see all of your requirements reflected properly in the Degree Progress Report. All of this can be done at any time using Campus Connect: Campus Connect > Student Center> My Academics> Change College, Major, Minor, Concentration. You change your concentration at any time, but it is strongly recommended that you meet with your academic advisor before making any changes.

- If at any time you are **considering changing your major**, please contact the Office of Academic Advising Support at 773-325-7431.
- **Not every course is available every quarter.** You are encouraged to plan effectively and allow for some flexibility as changes arise. For information on tentative course availability in 2018-2019, please contact your advisor.
- You must maintain an overall C average (GPA of >2.0) to avoid academic probation. You are required to have a minimum cumulative and major GPA of 2.0 in order to graduate. Please see the Student Handbook and University Catalog for complete details.
- The Experiential Learning component of the Liberal Studies core (formerly Junior Year Experiential Learning) can be filled in several ways, including through study abroad, research on campus, the University Internship Program managed by The Career Center, or a service learning course. For more information, visit our FAQ under Student Resources at <http://go.depaul.edu/healthsciences>.
- Students in the University Honors Program are required to fulfill the requirements of both that program and the Health Sciences major, and are strongly encouraged to meet regularly with both academic advisors. Honors students will complete two senior capstones- one for Honors and one for Health Sciences. PHL or REL courses taken for the health ethics requirement can be placed in one of the liberal studies electives under the direction of the Honors advisor.
- MAT 130 or higher placement is required for general biology (BIO 191-193) and general chemistry (CHE 120-135), and MAT 131 or higher is required for general physics (PHY 150-152) and calculus (MAT 150-152). Depending upon math placement scores, students should take any needed math courses (MAT 94, MAT 95, MAT 101, and MAT 130) in their freshman year or through the First Year Academic Success program, then take the required biology and chemistry courses once they are completed. Students will need to use their Open Electives for any math requirements and pre-requisites.
- A maximum of 50% of courses may be shared in the event of any double major. Students in the Health Sciences/BioScience concentration may not double major in Biological Sciences. Health Sciences majors may not pursue more than one concentration or track within Health Sciences.
- Courses offered in the student's primary major cannot be taken to fulfill Liberal Studies Learning Domain requirements (eg HLTH Majors may not take HLTH 229 as a Philosophical Inquiry course). If students double major, Learning Domain courses may count for both LSP credit and the second major.

TRANSFERRING CREDITS TO DEPAUL

Health Sciences students may wish to transfer in credits from other colleges and universities. Since the number and types of courses transferred varies considerably we strongly urge transfer students to see the advisors in the College of Science & Health or their academic advisor as soon as possible after orientation (Transition DePaul) so that we can make sure you are on track to take the proper courses, and so that we can establish an appropriate timeline for degree completion.

If you are a current DePaul student wishing to take courses elsewhere for application to your degree here, please see step by step instructions under our Student Resources FAQ at <http://go.depaul.edu/healthsciences>. You are required to complete a Transfer Credit Declaration form and receive clearance from the college in order to transfer credit towards your degree.

Despite the variations in courses that are transferred, students are encouraged to take as much as possible in sequence (i.e. core courses before major electives) to avoid taking more of the earlier required courses in their last few quarters at DePaul. Students should also pay particular attention to pre-requisites suggested or required for their desired electives, to ensure that they take the necessary background courses prior to taking the more advanced courses.

Transfer students should meet with an advisor after orientation and bring a complete list of the courses that have been transferred to DePaul, as well as any other transcripts or information relating to courses you think may not have transferred properly. If you think there are courses that were not applied correctly upon your transfer, be sure to bring a course description (and syllabus if possible) to your academic advisor when you meet so that the advisor can determine the proper placement of the course or assist you in requesting a review from TrAC.

Students transferring from another major, or from backgrounds with little or no science coursework, should be aware that it might take longer to complete the degree than expected, due to the required sequencing of courses. In talking with your advisor, make sure that you both understand and are comfortable with any outlined timeline for completion of the Health Sciences major.

CAREER AND GRADUATE SCHOOL ADVISING

If you are looking for help finding research opportunities, the CSH Office of Advising and Student Services has a staff member dedicated to helping you in your search. Just call 773-325-8490 to schedule an appointment or visit <http://go.depaul.edu/cshstudentresearch>.

We also strongly recommend that you reach out to the Career Center on campus (<http://careercenter.depaul.edu>). They have yearlong events, individual career advisors, and great resources for your job and internship search, including Handshake, an excellent new job search resource. Find out more at <http://depaul.joinhandshake.com>.

PRE-HEALTH PROGRAM AND PRE-HEALTH ADVISING COMMITTEE

DePaul's Pre-Health Program offers specialized advising for students interested in pursuing future professional studies in a variety of health careers. At DePaul University, the Pre-Health Program is not considered a major, minor, or concentration; therefore, any student with any major is able to register for the program to start taking advantage of its resources. To learn more about the Pre-Health Program and pre-health professions advising, and to obtain information about upcoming events, we encourage you to visit the website at <http://csh.depaul.edu/student-resources/advising-student-services/pre-health-advising/Pages/announcements.aspx> or find PAC on Facebook at www.facebook.com/DPUPreHealthAdvising.

COMBINED DEGREE PROGRAMS

There are currently several combined degree programs available for Health Sciences students who are interested in accelerating their path to graduate or professional education. The programs below are specifically designed for BS Health Sciences students, but there are a lot of exciting University Pathways programs that allow students from any major to get a head-start on their graduate education. For more information about these programs and their requirements, please see the University Catalog. ***Please note that in many cases the combined or accelerated degree programs will not be possible for transfer students- make sure you speak with an advisor as you are making your plans.***

BS IN HEALTH SCIENCES/MASTER OF PUBLIC HEALTH

DePaul's Master of Public Health (MPH) program provides a collaborative, applied approach to public health education, focusing on health promotion and disease prevention with individuals, families, communities, and organizations in diverse urban settings. This combined program maintains the rigor and value of both the undergraduate degree in Health Sciences Health and the Master of Public Health, so that students are earning exceptional training at both the undergraduate and graduate level. The advantage to this program is that students can earn their BS in Health Sciences degree and an MPH in as few as five years. Interested students may apply to this combined degree program during the start of their Junior year at DePaul. The student will need to be a Health Sciences major in the Public Health Studies concentration with a minimum cumulative GPA of 3.5. Application to the Master of Public Health program includes a 1-2 page personal statement and a current CV. The GRE requirement will be waived. Students must present a plan for their remaining quarters at DePaul to confirm that they can complete all degree requirements.

BS IN HEALTH SCIENCES/MASTER'S ENTRY NURSING TO PRACTICE

This unique program allows Health Sciences majors to enter the MENP program in their 4th year, effectively reducing the time to their MSN/RN by one year. The purpose of the graduate generalist program in nursing is to prepare qualified individuals for licensure by examination (NCLEX-RN) required for entry into professional nursing practice. By spending 5 years completing the BS in Health Sciences and the MENP, students will be exceptionally well-prepared for advanced professional practice. Any student interested in being a candidate for the program must be Health Sciences major in the BioScience:Pre-Nursing track and a member

of the Pathways Honors Program. Application to the program includes a 1-2 page personal statement and a current CV. The GRE requirement will be waived. Students must present a plan for their remaining quarters at DePaul to confirm that they can complete all degree requirements. Given the restrictions on the program, students will not have room in their curriculum for open electives, and would need to complete the general biology and general chemistry coursework in their freshman year. Any additional questions you may have about these programs can be answered by contacting CSHPreHealth@depaul.edu.

3+ PROGRAMS WITH ROSALIND FRANKLIN UNIVERSITY OF MEDICINE AND SCIENCE

This is a series of programs that combine undergraduate degrees in the college with a post-graduate, professional degree in one of several health fields. The Accelerated Program is only for qualified Health Sciences majors in the BioScience concentration and a member of the Pathways Honors Program who have been accepted into an accelerated 3+ pre-professional program. In order to pursue one of the six Accelerated Program tracks, a student must secure approval from the College of Science and Health's Pre-Health Advisor and cannot have significant transfer credit. Currently available programs are listed in the University Catalog under Health Sciences BioScience-Accelerated Programs, and include Pharmacy, Physician Assistant, Pathologist Assistant, Physical Therapy, Medicine, and Podiatry. Any additional questions you may have about these programs can be answered by contacting CSHPreHealth@depaul.edu.

ADDITIONAL INFORMATION

CLASS STANDING

Freshman:	0-43 credits
Sophomore:	44-87 credits
Junior:	88-131 credits
Senior:	132+ credits

UNDERGRADUATE DEGREE REQUIREMENTS*

1. The student must have completed a minimum of 192 quarter hours or a minimum of 50 competencies for the School for New Learning competency-based programs.
2. The student must have a minimum of 2.000 cumulative grade point average.
3. The student must have completed all requirements for their degree by the last day of term for which they apply for degree conferral.
4. The student must have earned grades of C- or better in all major and minor classes. Please note that the cumulative grade point average in each of these areas must be greater than or equal to 2.000.
5. The student must have fulfilled the residency requirement, i.e., he or she must have completed the following work at DePaul University:
 - o the final 60 quarter hours of credit
 - o one-half of the credit earned in the major area of concentrationNote: Students pursuing additional majors, minors or second degrees should consult the [Adding Supplementary Credentials to the Bachelor's Degree](#) section for additional information.

*You can find additional information about graduation requirements in the undergraduate student handbook

BIOSCIENCE CONCENTRATION**GENERAL TRACK****MAJOR CORE**

HLTH 201 Intro to Health Sciences
 HLTH 202 Health Research Literacy
 HLTH 210 Introduction to Public Health
 BIO 191 General Biology I
 HLTH 350 Health Sciences Capstone
 Health Ethics (REL 229 for Religious Dimensions, PHL 229 for Philosophical Inquiry, or HLTH 229 for Major Elective)

CONCENTRATION CORE

BIO 192 General Biology II
 BIO 193 General Biology III
 BIO 206 Biostatistics
 BIO 210 Microbiology
 CHE 120 or 130/131 General Chemistry I and lab
 CHE 122 or 132/133 General Chemistry II and lab
 CHE 134/135 General Chemistry III and lab
 BIO 250 Cell Biology
 HLTH 301 Integrated Human A&P A *and* HLTH 302 Integrated Human A & P B
or BIO 308 Human Physiology *and* BIO 201 Human Anatomy

GENERAL TRACK MAJOR ELECTIVES: CHOOSE 7 FROM THE FOLLOWING

HLTH 229 Ethics for Health Sciences	BIO 375 Introduction to Pharmacology
HLTH 310 Fundamentals of Epidemiology	BIO 380 Cancer Biology
HLTH 315 Maternal Child Health	BIO 386 Introduction to Endocrinology
HLTH 318 Aging Populations	CHE 230/231 Organic Chemistry I
HLTH 320 Molecular Virology	CHE 232/233 Organic Chemistry II
HLTH 325 Physiology of Poverty	CHE 234/235 Organic Chemistry III
HLTH 329 Medical Humanities	CHE 340/341 Biochemistry I
HLTH 339 Bioethics and Society Capstone	CHE 342/343 Biochemistry II
HLTH 341 Death and Dying	CHE 360 Medical Chemistry
HLTH 380 Topics in Health Sciences	CHE 362 Drugs and Toxicology
HLTH 399 Independent Study	CHE 364 Nutrition
ANT 361 Global Issues in Women's Health, ANT 362 Global History of Health <i>or</i> SOC 365 Health and Globalization	CMNS 315 Health Communication
BIO 260 Genetics	ENV 355 Environmental Health
BIO 311 Histology	MAT 150 Calculus I
BIO 330 Developmental Biology	MAT 151 Calculus II
BIO 331 Topics in Developmental Biology	MAT 152 Calculus III
BIO 339 Cellular Neurobiology	PE 273 Health and Nutrition
BIO 340 Systems Neurobiology	PHY 150 General Physics I
BIO 347 Topics in Medical Bacteriology	PHY 151 General Physics II
BIO 348 The Biology of Infection	PHY 152 General Physics III
BIO 355 Genetic Toxicology	PSY 105 Introductory Psychology I <i>or</i> PSY 106 Introductory Psychology II
BIO 360 Molecular Biology	SOC 351 Health Disparities
BIO 365 Principles of Toxicology	SOC 373 Public Health and High Risk Behavior
BIO 370 Immunobiology	

*STUDENT MAY NOT COMBINE THE HLTH AND BIO ANATOMY AND PHYSIOLOGY COURSES (EG HLTH 301 AND BIO 201).

BIOSCIENCE CONCENTRATION

MEDICAL TRACK

MAJOR CORE

HLTH 201 Intro to Health Sciences
HLTH 202 Health Research Literacy
HLTH 210 Introduction to Public Health
BIO 191 General Biology I
HLTH 350 Health Sciences Capstone
Health Ethics (REL 229 for Religious Dimensions, PHL 229 for Philosophical Inquiry, or HLTH 229 for Major Elective)

CONCENTRATION CORE

BIO 192 General Biology II
BIO 193 General Biology III
BIO 206 Biostatistics
BIO 210 Microbiology
CHE 120 or 130/131 General Chemistry I and lab
CHE 122 or 132/133 General Chemistry II and lab
CHE 134/135 General Chemistry III and lab
BIO 250 Cell Biology
HLTH 301 Integrated Human A&P A *and* HLTH 302 Integrated Human A & P B
or BIO 308 Human Physiology *and* BIO 201 Human Anatomy

MEDICAL TRACK REQUIREMENTS

CHE 230/231 Organic Chemistry I
CHE 232/233 Organic Chemistry II
CHE 234/235 Organic Chemistry III
CHE 340/341 Biochemistry I
PHY 150 General Physics I
PHY 151 General Physics II
PHY 152 General Physics III

*STUDENT MAY NOT COMBINE THE HLTH AND BIO ANATOMY AND PHYSIOLOGY COURSES (EG HLTH 301 AND BIO 201).

BIOSCIENCE CONCENTRATION

PRE-NURSING TRACK

MAJOR CORE

HLTH 201 Intro to Health Sciences
HLTH 202 Health Research Literacy
HLTH 210 Introduction to Public Health
BIO 191 General Biology I
HLTH 350 Health Sciences Capstone
Health Ethics (REL 229 for Religious Dimensions, PHL 229 for Philosophical Inquiry, or HLTH 229 for Major Elective)

CONCENTRATION CORE

BIO 192 General Biology II
BIO 193 General Biology III
BIO 206 Biostatistics
BIO 210 Microbiology
CHE 120 or 130/131 General Chemistry I and lab
CHE 122 or 132/133 General Chemistry II and lab
CHE 134/135 General Chemistry III and lab
BIO 250 Cell Biology
HLTH 301 Integrated Human A&P A *and* HLTH 302 Integrated Human A & P B

NURSING TRACK REQUIREMENTS

CHE 228/229 Survey of Organic Chemistry
PSY 303 Human Development

NURSING TRACK MAJOR ELECTIVES: CHOOSE 5 FROM THE FOLLOWING

HLTH 229 Ethics for Health Sciences	BIO 375 Introduction to Pharmacology
HLTH 310 Fundamentals of Epidemiology	BIO 380 Cancer Biology
HLTH 315 Maternal & Child Health	BIO 386 Introduction to Endocrinology
HLTH 318 Aging Populations	CHE 232/233 Organic Chemistry II
HLTH 320 Molecular Virology	CHE 234/235 Organic Chemistry III
HLTH 325 Physiology of Poverty	CHE 340/341 Biochemistry I
HLTH 329 Medical Humanities	CHE 342/343 Biochemistry II
HLTH 339 Bioethics and Society Capstone	CHE 360 Medical Chemistry
HLTH 380 Topics in Health Sciences	CHE 362 Drugs and Toxicology
HLTH 399 Independent Study	CHE 364 Nutrition
ANT 361 Global Issues in Women's Health, ANT 362 Global History of Health <i>or</i> SOC 365 Health and Globalization	CMNS 315 Health Communication
BIO 260 Genetics	ENV 355 Environmental Health
BIO 311 Histology	MAT 150 Calculus I
BIO 330 Developmental Biology	MAT 151 Calculus II
BIO 331 Topics in Developmental Biology	MAT 152 Calculus III
BIO 339 Cellular Neurobiology	PE 273 Health and Nutrition
BIO 340 Systems Neurobiology	PHY 150 General Physics I
BIO 347 Topics in Medical Bacteriology	PHY 151 General Physics II
BIO 348 The Biology of Infection	PHY 152 General Physics III
BIO 355 Genetic Toxicology	PSY 105 Introductory Psychology I <i>or</i> PSY 106 Introductory Psychology II
BIO 360 Molecular Biology	SOC 351 Health Disparities
BIO 365 Principles of Toxicology	SOC 373 Public Health and High Risk Behavior
BIO 370 Immunobiology	

*Student may not combine the HLTH and BIO anatomy and physiology courses (eg HLTH 301 and BIO 201).

PUBLIC HEALTH SCIENCES CONCENTRATION

MAJOR CORE

HLTH 201 Intro to Health Sciences
HLTH 202 Health Research Literacy
HLTH 210 Intro to Public Health
HLTH 350 Health Sciences Capstone
BIO 191 General Biology I
Health Ethics (REL 229 as Religious Dimensions, PHL 229 as Philosophical Inquiry, or HLTH 229 as Major Elective)

CONCENTRATION CORE

HLTH 194 Human Pathogens and Defense
HLTH 195 Human Form and Function
HLTH 250 Health Care Policy in the US or SOC 221 Intro to US Health Care System
HLTH 310 Fundamentals of Epidemiology
HLTH 335 Community Health Assessment
HLTH 336 Program Evaluation
PSY 354 Community Psychology
SOC 351 Health Disparities
CMNS 315 Health Communication
ANT 272 Intro to Medical Anthropology
ANT 361 Global Issues in Women's Health, ANT 362 History of Global Health or SOC 365 Health and Globalization
Statistics: SOC 279 or PSY 240 or MAT 242 or BIO 206

MAJOR ELECTIVES: CHOOSE 4 FROM THE FOLLOWING

HLTH 229 Ethics for Health Sciences
HLTH 230 Fundamentals of Health Education
HLTH 236 Gay Men's Health Matters
HLTH 315 Maternal Child Health
HLTH 318 Aging Populations
HLTH 329 Health Humanities
HLTH 330 Health Leadership
HLTH 325 Physiology of Poverty
HLTH 339 Bioethics in Society
HLTH 341 Death and Dying
HLTH 380 Topics in Health Sciences
HLTH 399 Independent Study
ENV 355 Environmental Health
ORGC 212 Small Group Communication, ORGC 251 Intro to Organizational Communication, PSY 355 Groups and Organizations, or SOC 342 Organizational Dynamics
PE 273 Health and Nutrition or SOC 370 People, Places, and Food
PRAD 338 Health and Public Relations
PSY 215 Human Sexuality
PSY 345 Cultural Issues/Diversity or SOC 250 Group Diversity
PSY 302 Personal Adjustment and Mental Health or PSY 353 Abnormal Psychology or SOC 353 Sociology of Mental Illness
PSY 363 Alcoholism, Drug Addiction, and Recovery or SOC 307 Sociology of Substance Use and Abuse
SOC 223 Sociology of Health and Wellness
SOC 321 Health and Human Services Organizations
SOC 373 Public Health: High Risk Behaviors