INTERDISCIPLINARY HEALTH PROGRAM
BACHELOR OF HEALTH SCIENCES
New Biomedical Sciences Concentration
A Joint Program with the Faculty of Arts, Faculty of Science and Rady Faculty of Health Sciences.

BIOMEDICAL SCIENCES CONCENTRATION
NEW TO THE B.HSc. PROGRAM
This uniquely structured Concentration will prepare undergraduate students for graduate studies in biomedical research or a career in the health sector.

Career Opportunities
- Biomedical research
- Entry into professional programs such as medicine, dentistry, rehabilitation sciences and nursing
- Research in the pharmaceutical industry
- Forensic research
- Diagnostic services/laboratory medicine
- Teaching
- Laboratory technologist
- Food Inspector
- Health Research Coordinator
- Health Care Administrator

Biomedical Sciences Concentration planning: umanitoba.ca/faculties/health_sciences/10829.html

CONTACT INFORMATION
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For registration and pre-requisite details visit umanitoba.ca/faculties/health_sciences/IHP.html

INTERDISCIPLINARY HEALTH PROGRAM
The Interdisciplinary Health Program (IHP) is a joint program offered by the Rady Faculty of Health Sciences and the Faculties of Arts and Science. The IHP is two separate, four year, 120 credit hour degrees:
- Bachelor of Health Sciences
- Bachelor of Health Studies
(Not covered in this brochure.)

General admission requirements for IHP: 24 credit hours (6 credit hours from Arts and 6 from Science) with a 2.0 GPA.

BACHELOR OF HEALTH SCIENCES
The Bachelor of Health Sciences (B.HSc.) program is a general course of study that can be used to build the knowledge and prerequisites for entry into graduate studies in biomedical science and health professional programs

This program will provide students with:
- an interdisciplinary background and skill set that will help them to prepare for a future in health–related careers;
- a broad and comprehensive understanding of the factors that affect health, the needs of clients and the delivery of health services; and
- a solid academic foundation in the biological and biomedical sciences.
BIOMEDICAL SCIENCES CONCENTRATION

The Biomedical Sciences Concentration is a new interdisciplinary experience which will provide students with an understanding of the mechanisms of diseases such as cancer, diabetes, multiple sclerosis and HIV, with hands on experience in a biomedical laboratory.

The Concentration will prepare students for graduate or professional studies in biomedical disciplines. Students interested in applying to the Biomedical Sciences Concentration are required:

- to submit a written statement to the Undergraduate Academic Advisor at the end of year 2 or beginning of year 3 of the B.HSc. program, by May 15.
- complete HEAL3610 with a minimum grade of 3.0.

BIOMEDICAL SCIENCES CONCENTRATION COURSES

YEAR 1 or 2
Bachelor of Health Sciences

I would like to pursue the Biomedical Sciences Concentration.

YEAR 3 - 2nd TERM
Biomedical Sciences Concentration
HEAL3610: Mechanisms of Disease 1
Prerequisite: Minimum grade of C in BIOL2520 and CHEM2360

In this course, you will learn how cells respond to injury, pathogens, and other negative stimuli within their environment. You will also learn how these processes support the normal function of tissues, organs and the body as a whole, as well as how changes in these processes contribute to cell death and the development of diseases such as cancer.

YEAR 4 - 1st TERM
Biomedical Sciences Concentration
HEAL4630: Mechanisms of Disease 2
Prerequisite: Minimum grade of B in HEAL3610

Expanding upon the concepts learned in HEAL3610, this course will help you understand how different disease processes contribute to systemic diseases such as diabetes and multiple sclerosis. You will also learn how our understanding of the mechanisms responsible for these diseases is helping researchers to develop new treatments and methods of diagnosis.

YEAR 4 - 2nd TERM
Biomedical Sciences Concentration
HEAL4640: Mechanisms of Disease 3
Prerequisite: Minimum grade of B or higher in HEAL3610 and HEAL4630

LAB TIME! This hands-on course will teach you the theory and practice of biomedical research techniques such as microscopy, cell culture and molecular biology, as used in modern research laboratories. Limited enrollment.

For details visit umanitoba.ca/faculties/health_sciences/IHP.html

ADMISSIONS INFORMATION

Enrolment in the Concentration will be limited to students who have achieved the highest degree GPAs after completion of HEAL 3610.

Students in the Bachelor of Health Sciences, Biomedical Concentration must complete 36 credit hours from the approved list of electives, of which at least 24 credit hours must be at the 3000 and 4000 level.

Courses required for the Biomedical Sciences Concentration (BIOL 2520, CHEM 2360, HEAL 3610, HEAL 4630, HEAL 4640) can count toward 18 of the 21 credit hours of approved science elective course work to be completed in years 3 and 4 of the B.HSc. degree.

Bachelor of Health Sciences Program planning: umanitoba.ca/faculties/health_sciences/9658.html
Biomedical Sciences Concentration planning: umanitoba.ca/faculties/health_sciences/10829.html