

# Health Sciences – Human Health Science specialization

\*2019-2020 - UG - Minor Program Adjustment

## (A) Proposal summary

Home faculty\*

Faculty of Health Sciences

Summary of proposed changes\*

Remove current core courses HLSC 2400U- Introduction to Movement Neuroscience and replace with HLSC 4805U- Non-communicable Diseases: Current Issues and Emerging Trends. **(Note: Open elective will move from Year 4 Sem 2 to accommodate the deletion of HLSC 2400 and HLSC 4805U will now be offered in Year 4 Sem 2)**

Is a new course associated with this proposal?\*

Yes  
 No

Are you modifying a pathways program?\*

Yes  
 No

Effective semester\*

Fall 2019

Are you attaching any supporting documents?\*

Yes  No

## (B) Program information

Program or shared core name\*

Health Sciences – Human Health Science specialization

Program type

Bachelor (Honours)

Degree type

Bachelor of Health Sciences (Honours)

Program or shared core description

Calendar copy\*

## General information

The Bachelor of Health Sciences (Honours) program has been designed to meet the needs of undergraduates aspiring to enter a variety of health-related careers or wishing to pursue postgraduate and professional studies.

The Bachelor of Health Sciences (Honours) is a multi-focused undergraduate degree that enables students to explore diverse aspects of healthcare delivery, health research and promoting human wellness while pursuing studies that build on their particular interests.

This degree is designed to deliver a broad-based curriculum for students to discover exciting areas of impact on human health. The program has a strong interdisciplinary focus weaving together physiological, sociological, and epidemiological perspectives on major health issues.

Successful first year students will progress within the specializations: Human Health Science Specialization or Public Health Specialization. Each option offers upper year electives that extend knowledge in core areas while also promoting critical thinking skills related to healthcare and major health issues in Canada.

Graduates are positioned to formulate questions related to human health, address technical and theoretical problems, and excel at analytical thinking.

Note: Effective 2013-2014, students are not being admitted to the Comprehensive specialization. It is anticipated that students currently in progress in the Comprehensive specialization will continue in their current program map until completion of their degree. Program maps for the Comprehensive specialization can be found online at [healthsciences.uoit.ca](http://healthsciences.uoit.ca). Students will be allowed to take courses from the new specialization maps that are developed as electives in their current program map, where prerequisites and sequencing will allow. Special permission of the instructor will be considered in cases where exact prerequisite matches may not occur.

## Human Health Science specialization

This specialization focuses on fundamental areas of science as it relates to human health and disease, including anatomy and physiology, pathophysiology, microbiology and neurophysiology. Students will take upper year electives that extend knowledge in these core areas as well as integrating critical knowledge and understanding of the healthcare system in Canada. Career

opportunities in Human Health Science include Laboratory Research Assistant, Healthcare Laboratory Administration, Government agencies (e.g. quality assurance, biosafety, and regulatory affairs), Business and industry (e.g. regulatory affairs, pharmaceuticals, biotechnology, research or quality assurance).

Students may apply to the Human Health Science specialization at the end of their first year of studies. Enrolment in the Human Health Science specialization is limited and admission is competitive. Students who are not successful in gaining a space in this specialization will have the option of pursuing the Public Health specialization.

Although reasonable efforts will be made to adhere to the following program map, course requirements and term offerings may change. For the most up-to-date list of course offerings, please visit the faculty website at [healthsciences.uoit.ca](http://healthsciences.uoit.ca).

## Admission requirements

Admission is competitive. The specific average or standing required for admission varies from year to year. Students are selected by taking into consideration a wide range of criteria including school marks, distribution of subjects taken, and performance in subjects relevant to the academic program. Possession of the minimum requirements does not guarantee acceptance. Preference will be given to applicants with the best qualifications.

Current Ontario secondary school students must complete the Ontario Secondary School Diploma (OSSD) with six 4U or 4M credits including English (ENG4U) with a minimum grade of 60 per cent, Biology (SBI4U), and one of Advanced Functions (MHF4U) or Calculus and Vectors (MCV4U) or Mathematics of Data Management (MDM4U). It is recommended for students applying to the Human Health Science specialization, that Chemistry (SCH4U) is also taken. All other applicants should refer to [admissions](#) for the requirements for their specific category of admission.

## Program details and degree requirements

To be eligible for a Bachelor of Health Sciences (Honours) degree, students must successfully complete 120 credit hours. Degree and program requirements are subject to change without notice. The following program maps are only a guide and are to be used in

combination with proper advising. Students wishing to make changes to their program of study should consult their academic advisor.

## Year 1

### Semester 1 (15 credit hours)

**BIOL 1010U Biology I: Molecular and Cellular Systems**

**CHEM 1010U Chemistry I**

**HLSC 1200U Anatomy and Physiology I**

**HLSC 1701U Information Literacy and Written Communication for the Health Sciences**

**HLSC 1810U Health Promotion and Healthy Active Living**

### Semester 2 (15 credit hours)

**BIOL 1020U Biology II: Diversity of Life and Principles of Ecology**

**CHEM 1020U Chemistry II**

**HLSC 1201U Anatomy and Physiology II**

**HLSC 1811U Social Determinants of Health**

**PSYC 1000U Introductory Psychology**

## Year 2

### Semester 1 (15 credit hours)

**HLSC 2130U Principles of Infection Prevention and Control**

**[HLSC 2400U Introduction to Movement](#)**

**Neuroscience**

**HLSC 2462U Altered Physiology: Mechanisms of Disease I**

**HLSC 2465U Anatomy and Physiology III: Cells and Tissues**

**HLSC 2802U Introduction to the Canadian Healthcare System**

**Open Elective**

## **Semester 2 (15 credit hours)**

**HLSC 2030U Interpersonal and Inter-professional Communication**

**HLSC 2110U Foundations in Clinical Biochemistry**

**HLSC 2463U Altered Physiology: Mechanisms of Disease II**

**HLSC 3800U Critical Appraisal of Statistics in Health Science**

**HLSC 3820U Public Health I**

## **Year 3**

## **Semester 1 (15 credit hours)**

**[Before]** Health Sciences elective

**[Before]** Open elective

**HLSC 2825U Nutrition and Health**

**HLSC 3463U Human Genetics in Society**

**HLSC 3910U Research Methods for Health Care Professionals: Theory and Application**

## **Semester 2 (15 credit hours)**

**[Before]** Health Sciences elective

**[Before]** Open elective

**HLSC 3464U Altered Physiology III: Cancer Biology**

**HLSC 3473U Prevention and Rehabilitation of Complex Chronic Conditions**

**HLSC 3710U Ethics**

## Year 4

### Semester 1 (15 credit hours)

[Before] Health Sciences elective (3000- or 4000-level)

[Before] Open elective

**HLSC 4310U Altered Physiology IV:  
Pharmacological Interactions**

**HLSC 4807U Perspectives in Aging**

[Before] One of:

**HLSC 4996U Research Applications I**

[Right] or

**HLSC 4998U Research Practicum I**

### Semester 2 (15 credit hours)

[Before] Two Health Sciences electives (3000- or 4000-level)

[Before] ~~Open elective~~

**HLSC 4805 Non-communicable Diseases: Current  
Issues and Emerging Trends**

**HLSC 4808U Exploring Mental Health and  
Developmental Disabilities**

[Before] One of:

**HLSC 4997U Research Applications II**

[Right] or

**HLSC 4999U Research Practicum II**

Program learning  
outcomes

## (C) Pathways programs

Proposed transfer  
credit block

## (D) Detailed proposal information

**Enhanced academic opportunities\*** The proposed changes will prevent redundancy in content covered related to neuroscience and neurology.

With the addition of these aforementioned courses detailed above, students will have a more complete, up-to-date and relevant working knowledge base related to current major drivers of health care costs, health care burden associated with disease prevention and management, hospitalization, morbidity and mortality in Canada and globally.

It is also imperative that students take HLSC 4805U as a core course when we decide to go forward for external review and/or accreditation purposes.

Specifically, HLSC 4805U-Non- communicable Diseases: Current Issues and Emerging Trends will address various critical core competencies deemed essential for all public health professionals and workers in Canada as outlined by the Public Health Agency of Canada (2007).

The addition of these courses would be in concert in what other BHSc programs in Canada are offering undergraduate students, and hence increase our ability to both attract and retain students.

**Financial/ resource implications\*** None

**Enrolment implications\*** May help to both retain and attract students to the BHSc (Human Health Science specialization) programs at UOIT, as a consequence of more relevant, current and needed courses that better reflects the driving forces of health care systems in Canada and globally.

**Transition plan\*** Implementation in Fall 2019, therefore should only affect new students enrolling in Fall, 2019 and going forward.

**Additional supporting information, if applicable**

## (E) Impact and consultation

**Does this change include any indigenous content?\***  Yes  No

**We have consulted with all impacted areas\***  Yes  N/A

**Consultation\*** Program level consultation