

# HONOURS BACHELOR OF HEALTH SCIENCES - TECHNOLOGIES AND INNOVATION IN HEALTHCARE OPTION AND MASTER OF HEALTH SCIENCES PHYSIOTHERAPY

## Overview

The Bachelor's and Master's dual degree programs in Health Sciences have been designed for bilingual students from Francophone minority high schools across Canada (outside Quebec).

## Honours Bachelor of Health Sciences - Technologies and Innovation in Healthcare Option

This program is offered in French.

The Honours Bachelor of Health Sciences program is defined by its integrative approach for studying health. Students are provided with a biosciences background, knowledge of quantitative and qualitative methodologies, along with an interdisciplinary approach to study the determinants of health. This unique academic program allows students to discover innovative ways to examine, measure and unravel complex health problems at all life stages, in Canada and around the world.

The Technologies and Innovation in Healthcare option will provide students with theoretical knowledge and applied skills to examine the applications and limitations of health technologies. Upon completion of this option, students will be able to evaluate the utility of health technologies including computer-assisted applications to both clinical research and health services delivery, demonstrate skills in health technology assessment methodologies and critically appraise the social and ethical implications of health technologies.

Graduates will be well-prepared to undertake health-related MSc programs or pursue careers in public or private health agencies, non-governmental health organizations or in community health programs. Students are provided with the necessary foundation further studies in medicine, rehabilitation studies, dentistry or pharmacy. Our interdisciplinary focus enhances the quality and maturity of future clinicians and health professionals

## Master of Health Sciences Physiotherapy

This program is offered in French.

Physiotherapy is a self-governing profession that promotes fitness, health and wellness. The profession provides frontline client-centered healthcare services to help clients maintain and improve their functional independence; and prevent and manage pain, physical limitations, disabilities, and limits to participation in their activities (Canadian Physiotherapy Association, 2000). The goal of the physiotherapy program is to train bilingual physiotherapists who can serve francophone clients

in Ontario and French-speaking communities across Canada and to foster excellence in research and teaching.

The program supports a client-centered approach and focuses on integrating evidence-based results from research on clinical decision-making. The conceptual framework of the program is based on the human movement sciences (kinesiology and pathokinesiology) and the clinical sciences and incorporates the International Classification of Functioning, Disability and Health (ICF) framework as the standard for describing and measuring health and disability.

The MHS in Physiotherapy program runs over six consecutive terms, i.e., two years of full-time study. Students must complete 60 course units and 1,025 placement hours. These mandatory placements can take place in Ottawa-area hospitals, schools and rehabilitation centres or at locations outside the National Capital Region.

The program follows the national physiotherapy curriculum guidelines established by the Canadian Council of Physiotherapy University Programs. Upon completing their education, graduates who wish to register with the College of Physiotherapists of Ontario must successfully complete the Canadian physiotherapy competency examination (Canadian Alliance of Physiotherapy Regulators).

Since the mission of the physiotherapy program is to train bilingual professionals able to serve Francophone populations, the program is only offered in French. However, assignments and exams can be written in either French or English. While French is the language of instruction, some clinical placements, however, take place in French, Bilingual and English settings. Students must therefore have a working knowledge of English.

## Program Requirements

For the most accurate and up to date information on admission requirements, please visit the program prerequisites (<https://www2.uottawa.ca/study/undergraduate-studies/program-prerequisites/>) webpage.

## Honours Bachelor of Health Sciences - Technologies and Innovation in Healthcare Option

Requirements for this program have been modified. Please consult the 2022-2023 calendars (<http://www.uottawa.ca/academic/info/regist/1516/calendars/>) for the previous requirements.

### Compulsory courses at the 1000 level

ANP 1505	Anatomie humaine et physiologie I	3 Units
ANP 1506	Anatomie humaine et physiologie II	3 Units
BIO 1540	Introduction à la biologie cellulaire et moléculaire	3 Units
CHM 1711	Principes de chimie	3 Units
FRA 1710	Analyse, écriture et argumentation I	3 Units
HSS 1500	Microbiologie et immunologie	3 Units
HSS 1501	Déterminants de la santé	3 Units
PSY 1501	Introduction à la psychologie : fondements	3 Units
SOC 1501	Éléments de sociologie	3 Units

### Compulsory courses at the 2000 level

HSS 2502	Communication et santé	3 Units
HSS 2705	Mécanismes moléculaires des maladies	3 Units

HSS 2721	Perspectives sociopolitiques et économiques de la santé	3 Units
HSS 2781	Analyse quantitative des données en sciences de la santé: variables continues	3 Units
HSS 2782	Analyse quantitative des données en sciences de la santé: variables catégorielles	3 Units
PHI 2796	Bioéthique	3 Units

#### Compulsory courses at the 3000 level

HSS 3501	Recherche en santé : approches qualitative et quantitative	3 Units
HSS 3503	Expérience de la maladie, de la déficience et du handicap	3 Units
HSS 3506	Pharmacologie : Mécanismes d'action et observance de la prise des médicaments	3 Units
HSS 3507	Comprendre les signaux mesurés par des technologies de la santé	3 Units
HSS 3510	Épidémiologie	3 Units
HSS 3703	Environnement et santé	3 Units
HSS 3705	Pathophysiologie des problèmes de santé	3 Units
HSS 3732	Technologie et santé	3 Units

#### Compulsory courses at the 4000 level

HSS 4501	Élaboration et évaluation de programmes en santé	3 Units
HSS 4502	Origines développementales de la santé et des maladies	3 Units
HSS 4508	Méthodes d'évaluation des technologies de la santé	3 Units
HSS 4509	Applications en santé assistées par ordinateur	3 Units

#### Optional courses

3 optional course units in Health Sciences from the list of optional courses	3 Units
6 science optional course units offered by the Faculty of Science	6 Units

**Total:** 90 Units

## List of Optional Courses

ANP 1507	Anatomie humaine et physiologie III	3 Units
HSS 2504	Activité humaine, travail et santé	3 Units
HSS 2505	Comprendre la santé mentale	3 Units
HSS 2516	La santé des francophones en situation minoritaire	3 Units
HSS 2521	Histoire des soins de santé	3 Units
HSS 3505	Citoyenneté mondiale et santé	3 Units
HSS 3508	Prévention des maladies et promotion de la santé	3 Units
HSS 3509	Approches de recherche en biosciences de la santé	3 Units
HSS 4510	Santé publique et santé des populations	3 Units
HSS 4511	Perspectives en santé sexuelle et reproductive	3 Units
HSS 4512	Déterminants moléculaires de la santé et de la longévité	3 Units

HSS 4712	Évaluation critique et appréciation de la recherche en santé	3 Units
HSS 4724	Thèmes choisis en sciences de la santé	3 Units

## Master of Health Sciences Physiotherapy

Requirements for this program have been modified. Please consult the 2023-2024 calendars (<https://catalogue.uottawa.ca/en/archives/>) for the previous requirements.

### Master's with Coursework

#### Compulsory Courses:

PHT 5512	Anatomie fonctionnelle du système musculo-squelettique	3 Units
PHT 5513	Biomécanique clinique	3 Units
PHT 5614	Évaluations et interventions de base en musculo-squelettique	4.5 Units
PHT 5621	Douleur, agents physiques et modalités thérapeutiques	4.5 Units
PHT 5622	Fondements de la pratique au niveau du système musculo-squelettique	4.5 Units
PHT 5623	Évaluation, diagnostic et intervention au niveau du système musculo-squelettique	4.5 Units
PHT 5631	Fondements et pratiques au niveau du système cardiorespiratoire	6 Units
REA 5703	Pratiques professionnelles en réadaptation	3 Units
PHT 6511	Évaluation et intervention auprès de personnes ayant des affections multiples I	2.5 Units
PHT 6531	Évaluation et intervention auprès de personnes ayant des affections multiples II	2 Units
PHT 6532	Pratique clinique et enjeux professionnels	3 Units
PHT 6533	Outils diagnostiques spécialisés en physiothérapie	3 Units
PHT 6612	Fondements neurobiologiques du mouvement humain	6 Units
PHT 6613	Évaluation, diagnostic et intervention au niveau du système neurologique	4.5 Units
REA 6503	Pratique factuelle en réadaptation	3 Units

#### Seminar:

PHT 6753	Séminaire de recherche	3 Units
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#### Clinical Placements: <sup>1</sup>

PHT 5901	Stage I
PHT 5902	Stage II
PHT 6903	Stage III
PHT 6904	Stage IV
PHT 6905	Stage V
PHT 6906	Stage VI

Note(s)

1

Six clinical practicums for a total of 1042.5 hours distributed over 29 weeks must be completed as set out by the Canadian Council of Physiotherapy University Programs. Two non-unit post-clinical placement integration activities must also be completed. To participate in the clinical placements, students must provide certain documentation required by agencies, by clinical environments and by the Ontario Ministry of Health, which serve to protect clients and students alike.

## Master's with Coursework and Research Project

### Compulsory Courses:

PHT 5512	Anatomie fonctionnelle du système musculo-squelettique	3 Units
PHT 5513	Biomécanique clinique	3 Units
PHT 5614	Évaluations et interventions de base en musculo-squelettique	4.5 Units
PHT 5621	Douleur, agents physiques et modalités thérapeutiques	4.5 Units
PHT 5622	Fondements de la pratique au niveau du système musculo-squelettique	4.5 Units
PHT 5623	Évaluation, diagnostic et intervention au niveau du système musculo-squelettique	4.5 Units
PHT 5631	Fondements et pratiques au niveau du système cardiorespiratoire	6 Units
REA 5703	Pratiques professionnelles en réadaptation	3 Units
PHT 6511	Évaluation et intervention auprès de personnes ayant des affections multiples I	2.5 Units
PHT 6531	Évaluation et intervention auprès de personnes ayant des affections multiples II	2 Units
PHT 6532	Pratique clinique et enjeux professionnels	3 Units
PHT 6533	Outils diagnostiques spécialisés en physiothérapie	3 Units
PHT 6612	Fondements neurobiologiques du mouvement humain	6 Units
PHT 6613	Évaluation, diagnostic et intervention au niveau du système neurologique	4.5 Units

### Research Project:

PHT 6920	Individual Research Project <sup>1</sup>	6 Units
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### Clinical Placements: <sup>2</sup>

PHT 5901	Stage I
PHT 5902	Stage II
PHT 6903	Stage III
PHT 6904	Stage IV
PHT 6905	Stage V
PHT 6906	Stage VI

### Note(s)

1

The Individual Research Project is an original production which serves to deepen knowledge of an issue related to physiotherapy through research methodology. The topic can be theoretical or applied to the field of study (case study). The Individual Research Project must be presented orally.

2

Six clinical practicums for a total of 1042.5 hours distributed over 29 weeks must be completed as set out by the Canadian Council of Physiotherapy University Programs. Two non-unit post-practicum integration activities must also be completed. To participate in the practicums, students must provide certain documentation required by agencies, by clinical environments and by the Ontario Ministry of Health, which serve to protect clients and students alike.

## Specific requirements for the master's program

### Minimum Requirements

The passing grade in each individual course is C+. S (Satisfactory) is required for each clinical placement.

Two failures (course or clinical placement) results in withdrawal from the program. In the case of a single failure, the failed course or the clinical placement can be repeated the next time the course is offered, but registration for courses or clinical placements for which the failed course or clinical placement is a prerequisite will not be possible. In this case, it will not be possible to complete the program within the prescribed time. Failing the repeated course or clinical placement is considered a second failure.

### Duration of the Program

The program normally runs over 6 consecutive full-time terms. All program requirements are expected to be complete, including the seminar course (PHT 6753) or the Individual Research Project (PHT 6920), within this two-year period.

### Expected Professional Behaviour

As future rehabilitation professionals, you must comply with the requirements of integrity as well as professional ethics in all aspects of your program (courses, clinical placements, projects) during your interactions with colleagues, professors, clinical supervisors, clients, research participants, academic staff, etc. A list of essential skills and qualifications of physiotherapy can be found here ([http://health.uottawa.ca/rehabilitation/sites/health.uottawa.ca.rehabilitation/files/pt\\_skills\\_attributes.pdf](http://health.uottawa.ca/rehabilitation/sites/health.uottawa.ca.rehabilitation/files/pt_skills_attributes.pdf)).

### Requirements for Clinical Placements

You must adhere to the requirements established by the Faculty of Health Sciences Requirements for practical learning activities (<https://www.uottawa.ca/faculty-health-sciences/clinical-education/>) (courses, labs, internships and clinical placements) regarding immunizations, police records and any other training or information required to ensure health and safety in clinical placement settings. It is your responsibility to know these requirements and to abide by them.

Non-adherence to the requirements can have major consequences, including not being able to start a clinical placement and even withdrawal during a clinical placement.

Attendance at clinical placements is mandatory, the abandonment of a clinical placement already started without good reason is a failure. In accordance with the affiliation agreement between the University of Ottawa and the clinical institution: "The organization may terminate an internship in a clinical setting and prohibit a student from continuing it if, in its opinion, the student's behavior represents a potential danger to its customers or patients or has a negative impact on their well-being or on

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the personnel of the organization ". If you are dismissed from a clinical placement by the clinical organization, you will receive a failing grade for this clinical placement.

The clinical placements take place in the Ottawa region as well as in other parts of Ontario and Canada. You may be assigned to a local or out-of-area clinical placement. In some cases, the Consortium National de Formation en Santé (<http://www.cnfs.ca/english/>) (CNFS) may cover part of the travel costs for out-of-area clinical placements.