HONOURS BACHELOR OF SCIENCE IN HUMAN KINETICS 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 Science in Human Kinetics
This program is offered in French.

The Honours Bachelor of Science in Human Kinetics emphasizes the biophysical sciences of human kinetics, with a focus on the role that biological, anatomical, musculoskeletal, and neuro-motor systems have on motor performance, and the impact of sport and physical activity on the body. It provides the knowledge, skills and techniques required for you to play a leading role in developing and implementing evidence-based approaches that maintain and improve human movement, and lead to positive health outcomes for different populations in a variety of settings. While the program focuses on disciplines such as anatomy, biomechanics, exercise physiology, motor control and psychomotor behaviour, it also provides an understanding of how the social sciences contribute to human movement and performance. Students have the opportunity to do experiential education internships in a community venue, or do a research project supervised by faculty. This degree can lead to admission to graduate studies in human kinetics and advanced degrees in allied health and rehabilitation sciences such as physiotherapy and occupational therapy, medicine, or chiropractic studies. Potential additional certifications: College of Kinesiologists of Ontario (Registered Kinesiologist), Canadian Society for Exercise Physiology (Certified Personal Trainer, Certified Exercise Physiologist).

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 MHSc 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

Honours Bachelor of Science in Human Kinetics

Compulsory courses at the 1000 level

- ANP 1505 Anatomie humaine et physiologie I 3 Units
- APA 1713 Anatomie du système locomoteur 3 Units
- BIO 1530 Introduction à la biologie des organismes 3 Units
- BIO 1540 Introduction à la biologie cellulaire et moléculaire 3 Units
- CHM 1711 Principes de chimie 3 Units
- CHM 1721 Chimie organique I 3 Units
- FRA 1710 Analyse, écriture et argumentation I 3 Units
- MAT 1730 Calcul différentiel et intégral pour les sciences de la vie I 3 Units
- PHY 1721 Principes de physique I 3 Units

Compulsory courses at the 2000 level

- APA 2514 Analyse biomécanique du mouvement humain 3 Units
- APA 2520 Apprentissage et contrôle moteur 3 Units
- APA 2540 Introduction au sport et à la psychologie de l’exercice 3 Units
- APA 2580 Méthodes de recherche en sciences de l’activité physique 3 Units
- APA 2701 Physiologie de l’exercice I 3 Units
- APA 2714 Techniques de laboratoire en physiologie de l’exercice et en bioméchanique 3 Units

Compulsory courses at the 3000 level

- APA 3520 Laboratoire de psychométrie 3 Units
- APA 3781 Mesure et analyse des données quantitatives en sciences de l’activité physique 3 Units

Optional courses

- 3 optional course units from:
  - PSY 1501 Introduction à la psychologie : fondements 3 Units
  - PSY 1502 Introduction à la psychologie : applications 3 Units

3 optional course units from:
ANP 1507  Anatomie humaine et physiologie III
BIO 2510  Physiologie environnementale
BIO 2533  Génétique
CHM 2520  Chimie organique II

6 optional course units from:

APA 1522  L’activité physique dans une perspective de santé mondiale
APA 1702  Sociologie du sport et de l’activité physique au Canada
LSR 1500  Introduction à l’étude du loisir
APA 2534  Administration des services de loisir, de sport et d’activité physique
APA 2702  Histoire du sport et de l’activité physique au Canada

27 optional course units in human kinetics (APA) at the 3000 or 4000 level

Total: 90 Units

Master of Health Sciences Physiotherapy

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

Clinical Placements

PHT 5901  Stage I
PHT 5902  Stage II
PHT 5903  Stage III
PHT 5904  Stage IV

PHT 6905  Stage V
PHT 6906  Stage VI

Total: 60 Units

Note(s)

1 Students must complete six clinical practicums for a total of 1042.5 hours distributed over 29 weeks as set out by the Canadian Council of Physiotherapy University Programs. Students must also complete two non-unit post-clinical placement integration activities. 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 Paper

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

Research Paper

PHT 6999  Major Paper  6 Units

Clinical Placements

PHT 5901  Stage I
PHT 5902  Stage II
PHT 5903  Stage III
PHT 6904  Stage IV
PHT 6905  Stage V
PHT 6906  Stage VI

Total: 60 Units

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.

Students who fail two courses (course or clinical placement) must withdraw from the program. Students who fail only one course/clinical placement can repeat the course or the clinical placement at the next time the course is offered. Students will not be able to take the courses or clinical placements for which the failed course or clinical placement is a prerequisite. In this case, students will not be able 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. Students are expected to complete all program requirements, including the Research Project (PHT 6753) or Research paper (PHT 6999), within this two-year period.

Expected Professional Behaviour
As future rehabilitation professionals, physiotherapy students are required to maintain a high level of integrity, as well as personal and professional ethics. The student agrees to adhere to this standard in all aspects of his program (courses, clinical placements, projects) during his interactions with colleagues, professors, clinical supervisors, clients, research participants, academic staff, etc. A list of essential skills and qualifications for physiotherapy students can be found here (http://health.uottawa.ca/rehabilitation/sites/health.uottawa.ca.rehabilitation/files/pt_skills_attributes.pdf).

Requirements for Clinical Placements
Students must adhere to the requirements established by the Office of Risk Management (http://orm.uottawa.ca/clinical-placement/) (RMO) regarding immunizations, police records and any other training or information required to ensure health and safety in clinical placement settings. It is the student’s 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 placements.

Presence at the 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 the personnel of the organization”. A student who is dismissed from a clinical placement by the clinical organization 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. A student may be assigned to a local clinical placement or outside. In some cases, the Consortium National de Formation en Santé (http://www.cnfs.ca/english/) (CNFS) can help with travel costs for clinical placements.