

# UNDERGRADUATE MEDICAL EDUCATION (MD PROGRAM) AND DOCTORATE IN PHILOSOPHY NEUROSCIENCE AND SPECIALIZATION HUMAN AND MOLECULAR GENETICS

## Undergraduate Medical Education (MD Program)

The program leading to the Doctor of Medicine degree includes 147 weeks of instruction (72 weeks of which are devoted to clinical work) scheduled over four calendar years.

Preclerkship is devoted to the teaching and learning of biomedical sciences, whereas Clerkship is devoted to clinical work. During medical studies, students should demonstrate the intelligence, the integrity, and the personal and emotional characteristics deemed necessary for competent physicians. Their behaviour must be consistent with an acceptable code of professional ethics, such as stated in the Faculty's Standards of Ethical and Professional Behaviour.

This program is offered in English and in French.

## Program Contact Information

Undergraduate Medical Education (<https://med.uottawa.ca/undergraduate/>)

451 Smyth Road, Room 2046  
Ottawa, ON K1H 8M5

Tel.: 613-562-5800 ext. 8551  
Toll free: 1-877-868-8292 ext. 8551  
Email: [medaca@uottawa.ca](mailto:medaca@uottawa.ca)

## Doctorate in Philosophy Neuroscience Specialization in Human and Molecular Genetics

The Department of Cellular and Molecular Medicine is located in the Faculty of Medicine and offers graduate programs leading to the degrees of Master of Science (MSc) and Doctor of Philosophy (PhD) in Neuroscience.

The programs help students develop their theoretical knowledge as well as their capacity for critical analysis. This is achieved through reading and critiquing the scientific literature, conducting experiments in the laboratory, analyzing the data and results generated, and presenting their results in the form of research seminars or posters. The programs prepare candidates for a variety of careers in teaching and research both within and outside of academia.

Graduates of the program will acquire autonomy in conducting research and in preparing scholarly publications and grant applications. A

comprehensive set of courses, state-of-the-art research facilities and outstanding research opportunities ensure a career in neuroscience.

The Department is a participating unit in the collaborative program in Human and Molecular Genetics and in Pathology and Experimental Medicine at the master's and doctoral levels.

## Program Contact Information

Graduate Studies Office, Faculty of Medicine (<https://med.uottawa.ca/graduate-postdoctoral/>)

451 Smyth Road, Room 2016

Ottawa, ON, K1N 6N5

Tel.: 613-562-5215

Toll free: 1-877-868-8292 ext. 5215

Email: [grad.med@uottawa.ca](mailto:grad.med@uottawa.ca)

Twitter | Faculty of Medicine (<https://twitter.com/uOttawaMed/>)

Youtube | Faculty of Medicine (<https://www.youtube.com/channel/UCP2nDlrjFEtyfMiOmle2HA/>)

Flickr | Faculty of Medicine (<https://www.flickr.com/photos/uottawamed/>)

## Program Requirements

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

## Undergraduate Medical Education (MD Program)

### Compulsory courses at the 1000 level

ELE 1900 Clinical Placement - Non Mandatory Elective - First Year

MED 1107 Community Week

MED 1200 Introduction Unit to the Profession

MED 1201 Foundations Unit

MED 1202 Unit I

MED 1302 Physician Skills Development (Part 1)

### Compulsory courses at the 2000 level

CLI 2101 Transition to Clerkship Part 1

ELE 2900 Clinical Placement - Non Mandatory Elective - Second Year

MED 2109 Mandatory Clinical Week

MED 2201 Unit II

MED 2202 Unit III

MED 2203 Unit IV

MED 2302 Physician Skills Development (Part 2)

### Compulsory courses at the 3000 level

CLI 3102 Surgery

CLI 3103 Internal Medicine

CLI 3104 Mandatory Selectives

CLI 3106 Obstetrics and Gynecology

CLI 3107	Pediatrics
CLI 3108	Psychiatry
CLI 3109	Family Medicine
CLI 3110	Acute Care Medicine
CLI 3111	Objective Structured Clinical Examination (OSCE)
CLI 3301	Transition to Clerkship Part 2
<b>Compulsory courses at the 4000 level</b>	
CLI 4104	Electives
CLI 4105	Transition to Residency
CLI 4106	Selective in Ambulatory Medicine
MED 4101	Eportfolio on Core Competencies (Part 1)
MED 4102	Eportfolio on Core Competencies (Part 2)
MED 4103	Eportfolio on Core Competencies (Part 3)
MED 4104	Eportfolio on Core Competencies (Part 4)

## Doctorate in Philosophy Neuroscience Specialization in Human and Molecular Genetics

The Department may require students to take additional courses, depending on their backgrounds.

Students must meet the following requirements for the doctorate with collaborative specialization:

### Compulsory Courses (NSC):

MED 8166	Professionalism and Professional Skills	
3 course units from:		3 Units
NSC 5102	Cellular and Molecular Neuroscience	
NSC 5104	Systems Neuroscience	

### Compulsory Courses (HMG):

3 course units from: <sup>1</sup>		3 Units
HMG 8103	Advanced Topics in the Molecular Biology of Human Diseases I	
HMG 8105	Advanced Topics in the Molecular Biology of Human Diseases II	
HMG 8600	Special Topics in Human and Molecular Genetics	

### Seminar:

NSC 8325S	Seminar for PhD Students <sup>2</sup>	3 Units
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### Comprehensive Examination:

NSC 9998	Comprehensive Examination (Ph.D.) <sup>3</sup>	
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### Thesis:

THD 9999	Doctoral Thesis <sup>4,5</sup>	
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Note(s)

1

Course selection is subject to the approval of the HMG program director.

2

The seminar course involves the presentation of a seminar and regular attendance at the departmental seminars.

3

Successful completion of a comprehensive examination in the form of a research proposal on their own thesis project.

4

Presentation and successful defence of a thesis on a topic in Human and Molecular Genetics. The thesis must be based on original research and must be carried out under the direct supervision of a member of the collaborative program.

5

Students are responsible for ensuring they have met all of the thesis requirements (<http://www.uottawa.ca/graduate-studies/students/theses/>).

## Minimum Requirements (Doctorate)

The passing grade in all courses is C+.

Students who fail two courses (equivalent to 6 units), the thesis proposal, or the comprehensive exam or whose research progress is deemed unsatisfactory are required to withdraw.