COMBINED PROGRAM MD AND PHD (MICROBIOLOGY AND IMMUNOLOGY OPTION)

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

Doctorate in Philosophy Microbiology and Immunology
The programs refine critical and scholarly skills in fields and areas of specialization and prepare students for a variety of careers in teaching and research both within and outside of academia, including in a governmental, clinical, or industrial setting. Graduates are expected to have acquired autonomy in conducting research, in preparing scholarly publications, through a training that includes course work, research seminars, and independent research leading to a thesis.

The Department is a participating unit in the following collaborative programs: the Bioinformatics program (at the master’s level) and the Pathology and Experimental Medicine program (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 K1H 8M5
Tel.: 613-562-5215
Toll free: 1-877-868-8292 ext. 5215
Email: grad.med@uottawa.ca

Program Requirements
Requirements for this program have been modified. Please consult the 2019-2020 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 3301 Transition to Clerkship Part 2
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)

Compulsory courses at the 4000 level
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 Microbiology and Immunology

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

Students must meet the following requirements:

**Compulsory Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MED 8166</td>
<td>Professionalism and Professional Skills</td>
<td>3</td>
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<tr>
<td></td>
<td>3 optional course units in microbiology and immunology (MIC) at the graduate level</td>
<td>3 Units</td>
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<tr>
<td></td>
<td>3 optional course units in microbiology and immunology (MIC) at the 8000 level</td>
<td>3 Units</td>
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**Seminar:**

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<tr>
<td>MIC 8366</td>
<td>PhD Seminar</td>
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**Comprehensive Examination:**

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<tr>
<td>MIC 9998</td>
<td>Comprehensive Examination</td>
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</table>

**Thesis:**

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<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>THD 9999</td>
<td>Doctoral Thesis</td>
<td>3, 4</td>
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**Note(s)**

1. The optional course units must be approved by the Department.
2. The seminar course involves the presentation of a seminar and regular attendance at the departmental seminars.
3. Successful presentation and defense of a thesis based on original research carried out under the direct supervision of a research faculty member in the Department.
4. 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.