Master of Science
Interdisciplinary Studies in Biological and Physical Sciences

Supervised Remote Program offered through the Harlem Campus

Program Profile
Master of Science
Interdisciplinary Studies in Biological and Physical Sciences
Supervised Remote Program - Harlem Campus

PROGRAM OVERVIEW

- All major courses in the M.S. Program are taught by professors of the Touro College of Osteopathic Medicine.

- This Supervised Remote program consists of virtual content delivery via the Flipped Classroom with synchronous supporting class meetings and lab sessions by Zoom led by TouroCOM faculty.

- Direct admission to the D.O. Program at Touro College of Osteopathic Medicine is an important feature of this program. A final GPA of 3.45 plus a Pass on the Comprehensive Exam are required. Typically, 25-38 students qualify for direct admission to TouroCOM each year.

- Conferral of the M.S. degree is contingent on a GPA of 3.0 or higher and a Pass on the Comprehensive Examination.

PROGRAM TIMELINE

- Online applications will be accepted December 1 through June 15. All supporting materials should be received by June 30.

- All M.S. students matriculate in the Fall Semester, and the program must be completed within two semesters:

  - Fall Semester begins end of July
  - Spring Semester begins early January
  - Graduation is early in May
Mission Statement

The Touro College of Osteopathic Medicine is committed to training osteopathic physicians, with a particular emphasis on practicing medicine in underserved communities, and to increasing the number of underrepresented minorities in medicine. We value and support public service, research, graduate medical education, and osteopathic clinical service in the community that will strive to improve health outcomes for those we serve. We will work to educate students through the use of the latest innovative education techniques using summative and formative measures so as to graduate qualified osteopathic physicians.

The Program and its Objectives

The Master of Science program in Interdisciplinary Studies in Biological and Physical Sciences has been carefully designed for students who have the strong ambition to complete a medical education. The program is intended to immerse students in the Medical College Curriculum so that candidates can determine whether the content satisfies their academic curiosity while the Medical College evaluates their potential for professional success.

All courses are taught by the Medical College faculty and students receive content and examinations identical to the medical school cohort. The Curriculum at this school is offered by a Flipped Classroom Model. Lectures are recorded as professionally produced videos, and all resources for each class are available electronically. Therefore, the number of class sessions is reduced, allowing extended study time.

Students enrolled in the Harlem campus M.S. program will engage in a supervised remote program. Course lectures are available virtually, while synchronous class discussion and laboratory sessions will be held remotely via Zoom. All student-faculty interactions are conducted by email, phone or Zoom. M.S. Students will not attend any class or lab in person.

Medical College Courses include Anatomy and Embryology, Biochemistry, Genetics, Histology, Immunology and Microbiology, Neuroanatomy and Physiology.

The faculty will encourage students to reach their full potential as they learn to focus on clear objectives in each course. Student performance will be closely followed with frequent evaluations and opportunities for corrections throughout each term.

Version date: 12-01-2022
Admission to the D.O. Program at Touro College of Osteopathic Medicine is offered to students who have met the following standard:

- Completion of the M.S. curriculum
- A GPA of 3.45/4.0 or higher
- A Pass on the Comprehensive Examination

Award of the M.S. degree requires:

- Completion of the M.S. curriculum
- A GPA of 3.00/4.0 or higher
- A Pass on the Comprehensive Examination

### Fall Semester

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<tr>
<th>Course</th>
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<td>CBE 530</td>
<td>Clinical Anatomy and Embryology I</td>
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<td>CBE 500</td>
<td>Medical Biochemistry</td>
<td>4</td>
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<tr>
<td>CBE 550</td>
<td>Physiology I</td>
<td>4</td>
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<td>CBE 510</td>
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<td>Law and Ethics in Medicine</td>
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### Spring Semester

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<td>CBE 535</td>
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<td>CBE 501</td>
<td>Medical Genetics</td>
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<td>CBE 551</td>
<td>Physiology II</td>
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<td>CBE 520</td>
<td>Neuroanatomy</td>
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<td>CBE 600</td>
<td>Microbiology and Immunology</td>
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<td>CBE 580</td>
<td>Health and Human Behavior</td>
<td>2</td>
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<tr>
<td>HS 668</td>
<td>Community Service</td>
<td>1</td>
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</tbody>
</table>

**Note:** Course designations and credit hours are subject to change without notice.
Touro College of Osteopathic Medicine

Kenneth Steier, D.O.
Executive Dean and Professor

Arthur Prancan, Ph.D.,
Professor Pharmacology and Physiology
Preclinical Dean
M.S. Program Director

Nadege Dady, Ed.D.
Dean of Student Affairs

M.S. Program – Harlem – Administrative Contacts

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Administrative Staff Support
(646) 981-4603
masters.tourocom@touro.edu

Version date: 12-01-2022
Program Faculty

**Clinical Anatomy and Embryology I and II**
- Sushama Rich, M.D., Course Director
- Ramona Baez, M.D.
- Bedia Castellanos, M.D.
- Naveen Kandavalli, M.D.
- Carlos Quinteros, M.D.
- Luis Vidal, Ph.D.

**Medical Biochemistry and Medical Genetics**
- Judith Binstock, Ph.D., Course Director
- Mariluz Henshaw, M.D., Ph.D.

**Community Service**
- Jeffrey Gardere, Ph.D., Course Director

**Histology**
- Luis Vidal, Ph.D., Course Director
- Piotr Kozlowski, M.D., Ph.D., Lab Director
- Olalekan Ogunsakin, M.D., Ph.D.

**Health and Human Behavior**
- Jeffrey Gardere, Ph.D., Course Director

**Microbiology and Immunology**
- Stacey Fanning, Ph.D., Course Director
- Maysa Azzeh, Ph.D.,
- Kathleen DiCaprio, Ph.D.

**Law and Ethics in Medicine**
- Niket Sonpal, M.D., Course Director

**Neuroanatomy**
- Naveen Kandavalli, M.D., Course Director
- Ramona Baez, M.D.
- Bedia Castellanos, M.D.
- Sushama Rich, M.D.
- Carlos Quinteros, M.D.
- Luis Vidal, Ph.D.

**Physiology I and II**
- Kurt Degenhardt, Ph.D., Course Director
- Kamilah Ali, Ph.D
- Conrad Fischer, M.D.
- Arthur Prancan, Ph.D.
M.S. Program- Application Requirements

Harlem Campus

Academic requirements for admission to the M.S. Program will be evaluated on an individual basis by the program administrators. An interview by phone, Zoom or during a personal visit to the campus maybe required. The summary of admission requirements follows:

1. Baccalaureate Degree from an Accredited College
   At the time the application is filed, applicants should:
   a) Possess an undergraduate science grade point average of at least 3.0 on a 4.0 scale.
   b) Possess an overall grade point average of at least 3.0 on a 4.0 scale.
   All foreign transcripts must be accompanied by a recognized evaluation transcript.

2. Prerequisite Courses
   Two semesters of Biology w/lab (8 credits)
   Two semesters of General Chemistry w/lab (8 credits)
   Two semesters of Organic Chemistry w/lab or Biochemistry (7 credits)
   Two semesters of Physics w/lab (8 credits)
   One semester of Behavioral Science (3 credits)
   One semester of Mathematics may include Calculus or Statistics (3 credits)
   Two semesters of English Composition (6 credits) if your BA/BS was NOT completed in English
   No prerequisite course will be accepted with a grade below 2.0 on a 4.0 scale.

3. Medical College Admissions Test (MCAT) required for D.O. admission. GRE, DAT, PCAT, etc. will be accepted for M.S. track only.

4. Three Letters of Recommendation
   Two should be written by individuals who can evaluate the applicant’s science background. An official letter from the College Premedical Committee may be substituted for the three letters of recommendation.

5. Send or direct all application materials to:
   
   Dr. Stacey Fanning  
   M.S. Program Assistant Director  
   Touro College of Osteopathic Medicine  
   230 West 125th Street, Room 428  
   New York, NY 10027  
   (646) 981-4649  
   masters.tourocom@touro.edu

Version date: 12-01-2022
Please contact the Program Coordinator for questions of application eligibility. Applications will be accepted December 1 through June 15 with all supporting materials due by June 30.

**Policy on Admission to Touro College of Osteopathic Medicine**

As an outcome of the M.S. Program, admission to the D.O. Program at Touro College of Osteopathic Medicine is offered to students who have met the standards listed below. Typically, between 25-38 M.S. graduates qualify for direct admission to TouroCOM each year.

- Completion of the M.S. curriculum
- A GPA of 3.45/4.0 or higher
- A Pass on the Comprehensive Examination

Admission to the Touro College of Osteopathic Medicine also requires completion of a background check and completion of all health inventory requirements, and that you met certain technical requirements, which are included in the admissions process for the Medical College.

The Master’s Program is a focused educational offering. Admission of graduates of this program to the D.O. program is outside the ACOMAS application process.

**Application and Further Information:**

[http://tourocom.touro.edu/masters](http://tourocom.touro.edu/masters)

For further assistance, please contact:

Raquel Suarez, MBA  
M.S. Program Coordinator  
Touro College of Osteopathic Medicine  
230 West 125th Street, Room 329  
New York, NY 10027  
(646) 981-4565  
masters.tourocom@touro.edu