



TOURO COLLEGE
OF OSTEOPATHIC MEDICINE

Where Knowledge and Values Meet

TOURO COLLEGE OF OSTEOPATHIC MEDICINE

Middletown Campus

Master of Science Program Profile

TOURO COLLEGE OF OSTEOPATHIC MEDICINE

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, 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 latest innovative education techniques using summative and formative measures so as to graduate qualified osteopathic physicians.

Touro College of Osteopathic Medicine
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The Program and its Objectives

The Master of Science (MS) 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 one-year program is intended to immerse students in the biomedical curriculum so that candidates can determine whether or not the content satisfies their academic curiosity while the medical college evaluates their potential for professional success.

All courses are offered at the Touro College of Osteopathic Medicine (TouroCOM) Campus in Middletown, NY, and are presented by the medical college faculty in lecture, workshop, and laboratory venues.

Medical college courses include Anatomy, Neuroanatomy, Biochemistry, Physiology, Histology and Cell Biology, Embryology, Microbiology and Immunology, and Medical Genetics.

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 that provide opportunities for counseling and growth throughout each term.

Admission to the D.O. Program at Touro College of Osteopathic Medicine is limited to the top 35 M.S. students ranked by M.S. Program GPA, who have met the following standard:

- a. Completion of the M.S. curriculum
- b. A GPA of 3.5/4.0 or higher
- c. A Pass on the Comprehensive Examination



Important Features:

The Master of Science: Interdisciplinary Studies in Biological and Physical Sciences Program

1. Applications will be received from November 1st through April 1st.
2. Major courses in the MS program run in parallel with the first-year DO class.
 - a. Anatomy and Embryology
 - b. Neuroanatomy
 - c. Biochemistry
 - d. Physiology
 - e. Histology and Cell Biology
 - f. Microbiology and Immunology
 - g. Medical Genetics
3. The program will be completed within two (2) semesters.
4. Award of the Master of Science Degree requires completion of all courses, a cumulative GPA of 3.00 GPA and a grade of Pass on the year end Comprehensive Examination.
5. Matriculation into the D.O. Program at Touro College of Osteopathic Medicine is limited to the top 35 M.S. students ranked by M.S. Program GPA, who have met the following standard:
 - a. Completion of the M.S. curriculum
 - b. A GPA of 3.5/4.0 or higher
 - c. A Pass on the Comprehensive Examination



Synopsis of Curriculum:

All courses are offered at the TouroCOM campus in Middletown, New York, and are presented by the medical college faculty in lecture, workshop and laboratory venues. The opportunity exists for students attending the MS program to take classes alongside students who attend the DO program at the TouroCOM, Middletown Campus.

Fall Semester – Middletown Campus

Course	Description	Credits
CBE 530	Clinical Anatomy and	7
CBE 500	Embryology Biochemistry	4
CBE 550	Physiology I	4
CBE 510	Histology and Cell Biology	5
CBE 620	Law and Ethics in Medicine	1
Total:		21



Spring Semester – Middletown Campus

Course	Description	Credits
CBE 501	Medical Genetics	3
CBE 551	Physiology II	3
CBE 520	Neuroanatomy	4
CBE 600	Microbiology and Immunology	6
CBE 535	Clinical Anatomy and Embryology II	3
CBE 580	Health and Human Behavior	2
HS 668	Community Service	1
Total:		22

Please Note: Courses designations and credit hours are subject to change without notice.



The Student Body

African Americans in New York state comprise approximately 15.9% of the population, yet only 8% of those enrolled in medical school. At the same time, Hispanic communities constitute 15.1% of the population, but only 5% of the medical school enrollment (Sources: AMS, AAMC, U.S. Census 2000). It is the mission of TouroCOM to increase the enrollment of underrepresented minorities in the student body at its institutions, and to ultimately increase the representation of minority physicians in New York State. We will strive to have a student body in the MS program which reflects this mission.

Facilities and Equipment

Campus Overview

TouroCOM, Middletown Campus, occupies the newly renovated Horton Hospital site, with three floors and 110,000 square feet devoted to the medical school and MS program.

The ground floor of TouroCOM, Middletown Campus, houses a state-of-the-art theatre/lecture hall with auditorium-style seating, holding over 135 students. The second lecture hall holds approximately 170 students. Three additional classrooms accommodate an estimate of 50 students each to facilitate small group learning experiences. There are study areas on all three floors of the building, including 18 group study rooms that can accommodate up to 10 students each for small group activities.

The ground floor also houses the TouroCOM library (see below) and video recording studio, where Middletown Campus faculty can record video lectures.

The first floor of TouroCOM, Middletown Campus, houses the student services administration and staff, with rooms for admissions and private consultation rooms for students who have questions regarding financial or academic concerns. The cafeteria/atrium is also located on the first floor. OSCE rooms, the Medical Simulation Lab, OMM Lab and the anatomy lab are located on the second floor of the medical school. The second floor also has six study and conference rooms.



Finally, TouroCOM faculty offices are also housed on the 2nd floor. This central office space is shared by the Basic Science/Osteopathic Medicine/Primary Care and Anatomy departments and allows for close interaction between all faculty members, thereby promoting curricular integration and research collaboration.

Library

The library is located on the ground floor and will be primarily an electronic library. The TouroCOM Middletown Library is connected to the larger Touro College on-line library system. This is the gateway to 1000's of on line journals and science and medical texts provided to students. In addition, the library has a reservation and circulation desk that hold copies of all required and suggested course texts. The library will also maintain an extensive collection of hard cover medical texts and course review texts available to medical and students, as well as an on line document/book borrowing system for those resources that aren't immediately available.

Housed within the library are 46 desk top computers and a photo copy facility for student use. There is also seating for over 100 students to utilize this space for study purposes.

The library is staffed by 2 full time employees, a Library Director and assistant who regularly provide large/small group and individual training to the students on how to take advantage of the library resources. They also provide training on how to use on-line document search engines such as Pubmed.gov.

Learning Resources

All teaching areas are fully equipped for wireless internet access, digital presentations, and audience response systems.

A very important curricular tool in use at TouroCOM is the Examsoft test writing/administration platform. Use of this software has allowed faculty to collect data on student performance on each exam question, allowing faculty the opportunity to identify content areas that require additional student/faculty attention.

The production of video lectures to support the flipped classroom curriculum is facilitated by a recording and video editing studio, containing the necessary filming and editing equipment required for video production. Finally, the college also maintains a data server, on which the complete library of lecture recordings is stored and accessed by students.



Master's Program Application Requirements

Academic requirements for admission to the MS Program will be evaluated on an individual basis by the program administrators. An interview by phone, computer, or during a personal visit to the campus will be required and initiated at the discretion of the Program Director. The summary of admission requirements follows:

1. **Baccalaureate Degree from an Accredited College or University**

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 point scale.

All foreign transcripts must be accompanied by a recognized evaluation transcript.

2. **Pre-Requisite Courses:**

- a. Applicants must have completed an acceptable academic year sequence (generally 8 semester hours) with **no grade** below 2.0 on a 4.0 point scale in each of the following subjects:
 - i. One year of English Composition (6 credits)
 - ii. One year of Behavioral Science (6 credits)
 - iii. One year of Biology with Lab (8 credits)
 - iv. One year of General Chemistry with Lab (8 credits)
 - v. One year of Organic Chemistry with lab or Biochemistry (8 credits)
 - vi. One year of Physics with Lab (8 credits)
 - vii. One year of Mathematics, may include Calculus or Statistics (4 credits)

3. **Medical College Admissions Test (MCAT)**

4. **Three Letters of Recommendation**

- a. Two letters should be written by individuals who can evaluate the applicant's science background. An official letter from the College Premedical Committee may substitute for the three letters of recommendation.

5. **Please direct all application materials and questions regarding applicant eligibility to:**

**Kristen Boland – MS Program
Coordinator Touro College of
Osteopathic Medicine Middletown
Campus
60 Prospect Avenue
Middletown, NY 10940**



Policy on Admission to Touro College of Osteopathic Medicine

Admission to the D.O. Program at Touro College of Osteopathic Medicine is limited to the top 35 M.S. students ranked by M.S. Program GPA, who have met the following standard:

- a. Completion of the M.S. curriculum
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- c. 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 include 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 AACOMAS application process.

Application and Further Information:
<https://tourocom.touro.edu/masters>

For further assistance, please contact:

Kristen Boland – MS Program Coordinator
Touro College of Osteopathic Medicine, Middletown
Campus 60 Prospect Avenue
Middletown, NY 10940
(845) 648-1000 x. 60251
Kristen.boland@touro.edu



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Touro College of Osteopathic Medicine Middletown Campus

Patricia Salkin, JD

Provost

Touro College of Osteopathic Medicine

Kenneth Steier, DO

Executive Dean & Senior Program Advisor

Touro College of Osteopathic Medicine, Middletown Campus

Stephen Jones, PhD

Associate Preclinical Dean and Master of Science Program

Director

Touro College of Osteopathic Medicine, Middletown Campus

Jerry Cammarata, PhD

Dean of Student Affairs & Chief Operating Officer

Touro College of Osteopathic Medicine, Middletown Campus

Master's Program Administrative Contacts:

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Director of Admissions & Student Life

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francis.rose@touro.edu



Program Faculty

Clinical Anatomy and Embryology

Stany Lobo, PhD	Course Director
Stephen Moorman, PhD	Anatomy Department Chairman
Oana Rosenthal, MS	

Biochemistry/ Genetics

Sankhavaram Panini, PhD Vasudeva Kamath, PhD	Course Director
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Community Service

Martin Torrents, DO	Course Director and OMM Department Chairman
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Histology and Cell Biology

Alex Braun, MD Fernando Bruno, MD	Course Director
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Human Behavior and Health

Omotayo Majekodunmi, MD	Course Director
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Immunology and Microbiology

Stephen Jones, PhD David Manna, PhD	Course Director
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Law and Ethics

Omotayo Majekodunmi, MD	Course Director
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Neuroanatomy

Michael Miller, PhD Stany Lobo, PhD	Course Director
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Stephen Moorman, PhD
Oana Rosenthal, MS

Anatomy Department Chairman

Physiology

Nilank Shah, PhD
Jeffrey Karpen, PhD
Tanchun Wang, PhD
Clifford Knapp, PhD

Course Director
Basic Biomedical Sciences Chairman