



**NEW YORK INSTITUTE
OF TECHNOLOGY**

College of Osteopathic
Medicine

STUDENT PROSPECTUS FOR THE ACADEMIC MEDICINE SCHOLARS PROGRAM

NYIT
*College of
Osteopathic Medicine*



MISSION: The NYIT College of Osteopathic Medicine Academic Scholars Program is designed to prepare outstanding osteopathic medical students who are interested in pursuing careers in Academic Medicine.

SCHEDULE

Students enroll in a Master's Degree Program in Academic Medicine, which consists of 33 credits of graduate coursework that shall be completed during the scholarship year. The scholarship lasts one calendar year and begins in January following completion of the first half of 3rd-year clerkships. After the scholarship year, students resume their rotations and graduate upon the completion of their 5th year. At graduation, students will receive their DO degree, their Master's Degree in Academic Medicine, and a certificate issued by the Academic Medicine Program signifying the completion of all requirements. To matriculate into the Academic Medicine Program, the student must be in good academic standing at the time of application to the Academic Medicine Program and must maintain good academic standing status up to the time the student begins the Academic Medicine Program Year. Additionally, the student must pass COMLEX Step I on their first attempt by no later than June 30th following their second year of medical school.



OBJECTIVES

During their scholarship year, Academic Medicine Scholars will:

- Develop research skills
- Amplify verbal and written communication skills
- Learn effective teaching methods
- Integrate information technology in medical education, health care delivery, and research
- Learn the process of publishing research in peer-reviewed journals

FINANCIAL SUPPORT

The NYIT College of Osteopathic Medicine offers partial tuition remissions to students enrolled in the Academic Medicine Scholars Program, including the scholar year and the final two years of medical school. The amount of tuition remission is subject to change pending institutional budgets, so please contact the program director for more specific details about financial support for Academic Medicine Scholars.

TRAVEL EXPENSES

Scholars can be reimbursed for expenses related to travel to scientific and professional society meetings.

CURRICULUM FOR THE MASTER'S DEGREE IN ACADEMIC MEDICINE

The Master's Degree in Academic Medicine requires 33 credit hours. Academic Medicine Scholars can choose to emphasize teaching or research but must earn credits in both areas from the following curriculum:

MMPU 834, 836, 838: Introductory. Research in Biomedical and Clinical Sciences I, II & III **MMPU 826, 828, 832: Advanced Research in Biomedical and Clinical Sciences I, II & III**

Scholars enroll in research credits in the spring, summer, and fall semesters. At the beginning of the Scholar year, students select a research mentor from among the NYITCOM faculty. They will collaborate with the faculty mentor in developing and conducting a research project which they will then continue through the year. For approval, the research project must be appropriate for the available resources, time, and general level of knowledge and expertise of the students. As the project begins, students are required to develop personalized learning objectives that describe what will be learned, specifically from involvement in their research project.

MMPU 710: Concepts, Practice, and Issues in Biostatistics

This course provides training for students to gain competence in statistics relevant to an academic physician. This course consists of a series of highly interactive activities designed to familiarize scholars with concepts, practices, and issues in biostatistics. Scholars will participate in group discussions of assigned chapter readings and published journal articles. They will develop competency in analyzing biomedical data algorithmically and through a standard software kit. They will give presentations on an exemplar research project on the statistical soundness of its approach and claims.

MMNM 710: Advanced Concepts in Biomedical Research

This course consists of a series of interactive activities designed to familiarize students with science as a basic endeavor and provides them with opportunities to read and critically evaluate peer-reviewed biomedical literature. Students enrolled in this course will read about and discuss scientific methods and reasoning, participate in, and lead critical discussions on up-to-date biomedical research topics in peer-reviewed journal articles, and write and evaluate NIH style grant proposals. In the first half of the course, NYITCOM faculty will choose topics and assign readings. In the latter half of the course, students themselves will be responsible for selecting topics for discussion, assigning readings, and leading classroom sessions.



MMPU 735: Methods and Research in Medical Education

This course consists of sessions and workshops that examine the processes, methodologies, and applications of medical education. Scholars will search, evaluate, and discuss medical education literature, learn about pedagogical models of medical education, and write learning objectives and assessment items. Scholars will be able to apply what they learn in this course to the active teaching components of the curriculum – lectures, OMM, DPR, and Anatomy teaching practicums.

MMOM 820, 822: Into to Teaching OMM Principles and Practice I and II

MMOM 830, 832: Immersive Teaching in OMM Principles and Practice I and II

Academic Scholars are an integral link in teaching osteopathic principles and practice to pre-clinical students. Through deeper study of the materials, clinical exposure, preparatory lab sessions, and practice assessment item writing, they will develop their ability to teach in large and small group settings. They will become more adept in conveying osteopathic philosophy and diagnosis and treatment methods. Scholars will also prepare scholarly work in the form of an osteopathic case write-up for presentation and have other opportunities for academic enrichment in osteopathy.

MMNM 826: Applications in Teaching and Learning

This course is intended to give Scholars experience acting as instructors and group discussion facilitators in an online educational setting. Utilizing the college of medicines' online platform, students are required to select, prepare, and deliver a single one-hour academic lecture/classroom session. Preparation for the activity will include virtual workshops, topic selection, and instructional design. Additionally, each Scholar will attend a post-lecture debriefing session and provide a written summary of their experiences.

MMPU 820: Practicum in Clinically Oriented Anatomy**MMPU 825 Practicum in Clinically Oriented Neuroanatomy**

These courses are designed to give Academic Medicine Scholars a well-rounded understanding of human gross anatomy laboratory instruction methods, including assisted dissection, didactic anatomical demonstrations, small-group instruction and facilitation, and reciprocal peer-teaching.

MMNM 730: Advanced Concepts of Clinical Research

The purpose of this course is to provide training for scholars in activities pertinent to an academic physician, with a focus on clinical research. The course should prepare Scholars to critically review medical literature, lead journal clubs, prepare clinical topics and case presentations appropriate for activities at university teaching hospitals (tumor board, grand rounds, etc.), and discuss issues pertinent to clinical research at an advanced level.

MMNM 832: Academic Clinical Medicine

In this course, Academic Medicine Scholars will be presented with opportunities for continued clinical exposure during their Scholar year and achieve competency in presenting a case and facilitating group discussion as it pertains to basic anatomy, histology, physiology, pathology, osteopathic findings, laboratory and radiology findings, and societal implications of cases encountered in clinics. In addition, the Academic Medicine Scholars will facilitate discussion incorporating learning theory, processes, and pedagogical models of medical education, which are introduced in earlier modules.

MMNM 830, 834: Doctor-Patient Relationship Lab Training I and II

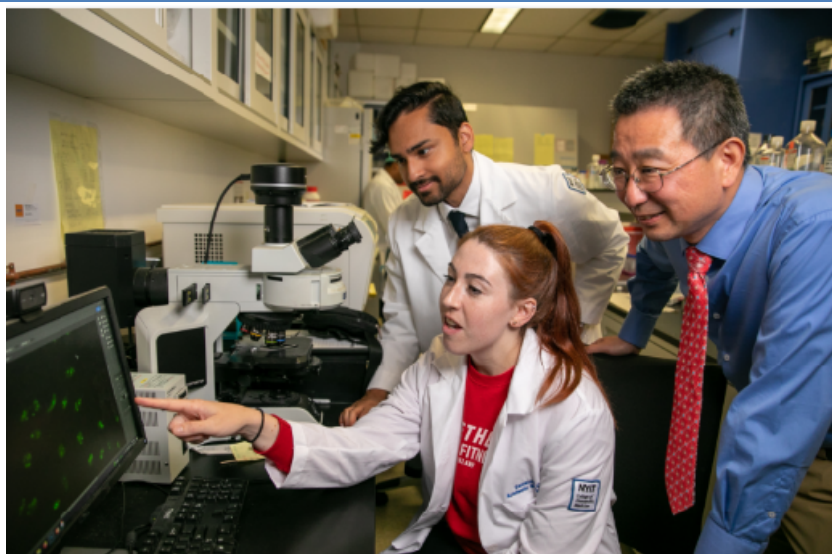
During this course, the Academic Medicine Scholars will understand and demonstrate how to educate first-year medical students during the Doctor-Patient Relationship Laboratory sessions. The skills taught in this course will serve as a bridge between didactic educational approaches and techniques. The course will develop the Scholar's skills with particular emphasis on the facilitation and debriefing of first-year osteopathic medical students. Additionally, medical education through simulation will be introduced.

CURRICULUM**RESEARCH-EMPHASIS SCHOLARS CURRICULUM FOR 2026**

SPRING	COURSE NUMBER	REQUIRED	REQUIRED OPTION	ELECTIVE
Concepts, Practice, and Issues in Biostatistics	MMPU 710	3		
Advanced Concepts in Biomedical Research	MMNM 710	3		
Methods and Research in Medical Education	MMPU 735			3
Doctor-Patient Relationship Lab Training I	MMNM 830	1.5		
Intro to Teaching OMM Principles and Practice I	MMOM 820		2	
Applications in Teaching and Learning	MMNM 826		1	
Practicum in Clinically Oriented Neuroanatomy	MMPU 825			3
Advanced Research in Biomedical and Clinical Sciences I	MMPU 826	4		
SUMMER				
Epidemiology	MMPU 715			3
Advanced Research in Biomedical and Clinical Sciences II	MMPU 828	4		
FALL				
Advanced Concepts of Clinical Research	MMNM 730	3		
Academic Clinical Medicine	MMNM 832	3		
Doctor-Patient Relationship Lab Training II	MMNM 834	1.5		
Intro to Teaching OMM Principles and Practice II	MMOM 822		2	
Practicum in Clinically Oriented Anatomy	MMPU 820			3
Applications in Teaching and Learning	MMNM 826		1	
Advanced Research in Biomedical and Clinical Sciences III	MMPU 832	4		
TOTAL		27	3	3

TEACHING-EMPHASIS SCHOLARS CURRICULUM for 2026

SPRING	COURSE NUMBER	REQUIRED	REQUIRED OPTION	ELECTIVE
Concepts, Practice, and Issues in Biostatistics	MMPU 710	3		
Advanced Concepts in In Biomedical Research	MMNM 710			3
Methods and Research in Medical Education	MMPU 735	3		
Doctor-Patient Relationship Lab Training I	MMNM 830	1.5		
Immersive Teaching in OMM Principles and Practice I	MMOM 830	4		
Applications in Teaching and Learning	MMNM 826		1	
Practicum in Clinically Oriented Neuroanatomy	MMPU 825			3
Introductory Research in Biomedical and Clinical Sciences I	MMPU 834	2		
SUMMER				
Epidemiology	MMPU 715			3
Introductory Research in Biomedical and Clinical Sciences II	MMPU 836	2		
FALL				
Advanced Concepts of Clinical Research	MMNM 730			3
Academic Clinical Medicine	MMNM 832	3		
Doctor-Patient Relationship Lab Training II	MMNM 834	1.5		
Immersive Teaching in OMM Principles and Practice II	MMOM 832	4		
Practicum in Clinically Oriented Anatomy	MMPU 820	3		
Applications in Teaching and Learning	MMNM 826		1	
Introductory Research in Biomedical and Clinical Sciences III	MMPU 838	2		
TOTAL		29	1	3



OTHER EXPERIENCES

Academic Medicine Scholars will have the opportunity to engage in other educational and research experiences as negotiated between individual Faculty, Program Directors, and the Academic Medicine Scholars Program Director.

HOW TO APPLY

Your application consists of two items: an up-to-date curriculum vitae (CV) and a letter of intent explaining why you wish to become an Academic Medicine Scholar.

Your finished application must be submitted no later than 12:00 pm on Tuesday, October 14, 2025.

Old Westbury applicants: Please submit one PDF file (your curriculum vitae (CV), followed by your letter of intent) to Dr. Matthew Mihlbachler (mmihlbac@nyit.edu) and Ramona Buschel-Tracy (rbuschel@nyit.edu).

THE APPLICATION REVIEW PROCESS

The Academic Medicine Scholars Committee will review all applications. A selected group of applicants will then be interviewed. Applicants will be informed of the decisions made by the committee prior to the end of the calendar year.



OLD WESTBURY:

DIRECTOR OF THE ACADEMIC MEDICINE SCHOLARS PROGRAM

Matthew Mihlbachler, Ph.D.
Associate Professor, Anatomy
mmihlbac@nyit.edu
Phone: 516-686-3808
Riland, 380C

ADMINISTRATIVE SPECIALIST, ACADEMIC MEDICINE SCHOLARS PROGRAM

Ramona Buschel-Tracy
rbuschel@nyit.edu
Phone: 516-686-3966
Rockefeller, 314G

