

Medical/Healthcare Simulation, M.S.

The need for healthcare professionals with a strong knowledge and training in the theory of medical simulation is rapidly growing. The coursework in this program is designed for anyone interested in entering into the field of healthcare simulation or who is interested in advancing their career while already working within the profession.

Presently, healthcare simulation centers are in operation throughout the world and fall into 3 broad categories:

- **Medical schools and other health professions schools** such as nursing, physical therapy, physician's assistant, and pharmacy where standardized patient and mannequin based programs are used to train students in a variety of skills including communication, physical examination, and team based interprofessional interactions.



- **National licensing boards** such as the National Board of Osteopathic Medical Examiners (NBOME) and National Board of Medical Examiners (NBME), where standardized patients are used to assess clinical competencies of medical and other healthcare professions students prior to graduation.
- **Hospitals and simulated hospitals**, where patient simulations are used to train and improve the performance of clinical and non-clinical staff in programs designed to recreate the hospital setting, improve patient outcomes, and assess processes for efficiency and safety.

The foundational knowledge gained in this program can also be translated to fields outside of healthcare that also use simulation programs to train their professionals, such as law school, law enforcement, the hospitality industry, aviation industry, the military, etc.

Statement on Non-Discrimination

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Section 504 of the Rehabilitation Act of 1973 or Title IX of the Education Act of 1972:
Cheryl Monticciolo
Director, Compliance and
Title IX Coordinator and 504 Coordinator
New York Institute of Technology
Tower House, Room 106, Old Westbury, NY 11568
516.686.1080 | cheryl.monticciolo@nyit.edu

NYITCOM Office of Admissions

Serota Academic Center, Room 203
Northern Boulevard, P.O. Box 8000
Old Westbury, NY 11568-8000
Phone: 516.686.3997
comadm@nyit.edu

Program Highlights

- The Medical/Healthcare Simulation, M.S. is a two-year program that is completed almost entirely online and is taught by professionals that work in healthcare simulation. All instructors have advanced degrees in their fields and actively work with national organizations that use simulation as an assessment tool, or are employed by simulation centers. They impart not only foundational knowledge but also practical advice gleaned through their experiences in real world settings.
- The program is designed to provide students with the foundational skills and knowledge needed to work in any healthcare simulation center.
- Foundational knowledge covered includes adult learning theory, case design, assessment and exam design, simulation research fundamentals, basic human anatomy/physiology and radiology, use of standardized patients, and mannequins/task trainers in simulation, and management of a simulation center. Students are required to complete and defend a thesis on a related topic.
- Two courses are completed over a period of one week at the simulation center at the Long Island campus. During this time, students will apply the knowledge they have gained by designing and running simulation programs that utilize standardized patients, mannequins, and task trainers.
- By the end of the program, students will be able to step into any simulation center and be an active staff member in whatever job role they have assumed.
- If you're interested in applying, please go to https://www.nyit.edu/degrees/simulation_ms

Potential Career Options for healthcare simulation professionals:

- Manager or Director of Operations
- Simulation Educator
- Simulation Technologist
- Standardized Patient Educator

NYITCOM graduates have gone on to healthcare simulation careers in:

- Adelphi University
- Northwell Health
- NYC Health and Hospitals Simulation Center
- Philadelphia College of Osteopathic Medicine (PCOM)
- Georgia Simulation Center
- St. Joseph Mercy Ann Arbor Hospital in Michigan
- Stony Brook University

Program mission:

To produce exemplary leaders and scholars who will advance the field of medical simulation so that they may improve the education of healthcare professionals and improve healthcare locally, regionally, and internationally.

Program goals:

1. To provide students enrolled in the program with a broad and rigorous foundation in the theory and practice of simulation in healthcare.
2. To provide healthcare organizations and educational institutions with effective and innovative leaders who will serve the needs of their communities.
3. To provide the field of simulation education with scholars who will advance our understanding and practice of simulation education in the health professions.