New York University recently established state-of-the-art biotechnology programs with a focus on efforts that integrate the life sciences with physical, bioengineering, and computational science. The NYU Biomaterials Program has significant strengths in biosensors, 3D bio-printing, bio-imaging, bone-soft tissue interfaces, bio-inspired materials synthesis, dental implants, and biomechanics, among other research areas. These programs create bridges among nanotechnology, medicine, dentistry, nursing, and bioengineering by emphasizing the development of a new biomaterials base for enhanced human health.

ACADEMIC PROGRAM

The mission of the Biomaterials Master of Science (MS) program is to provide education and training in biomaterials science and immersion in state-of-the-art technology, while ultimately contributing to improving human health through biomaterials-based treatment modalities.

The Department of Biomaterials offers a Master of Science (MS) degree in three options, all of which share the same course requirements and result in the same degree:

- **1-year option:** This program comprises an intensive, didactic, 30-credit option. A student in this program must be fully committed to taking an average of 15 credits per semester for two semesters. There is no thesis option in this program, but a 2-credit Independent Project is the final requirement.

- **2-year thesis option:** This research-intensive option requires 36 credit hours of course work as well as completion and defense of a research thesis based on the student’s original work. Of the 36 required credit hours, 2–6 credit hours may be approved for the student’s research work.

- **2-year non-thesis option:** This option requires 36 credit hours of course work, of which 2 credit hours will be utilized for the student’s Independent Project, which is conducted in lieu of the formal thesis. This option offers the student the advantage of research experience, but does not require a formal thesis. This option can be completed in 18 months to 2 years.
The newly configured NYU Biomaterials program looks to build bridges among nanotechnology, dentistry, nursing, and bioengineering with an emphasis on development of a new biomaterials base for enhanced human health.

- Integrate the life sciences with physical, bioengineering, clinical, dental, and data sciences
- Next generation biosensors
- Mobile health
- Bio-imaging
- 3-D printing
- Bone-soft tissue interfaces
- Bio-inspired surface modifications and materials synthesis
- Dental implants
- Bulk nanometric material synthesis
- Mechanics of materials
- Inorganic analysis

**CORE FACILITIES**

- CardiacScoreCard Testing Facility
- Biologic 3D Printing Facility
- Electron Microscopy
- X-ray Imaging and X-ray Diffraction
- Light Microscopy
- Mechanical Characterization
- Materials Characterization
- Biomaterials Synthesis and Histology Preparation
- Tissue Culture and Animal Facility

To learn more and to apply, visit:

http://dental.nyu.edu/academicprograms/masters-degree-programs/biomaterials.html

Application deadline: July 1st for Fall admission

*Early application is encouraged to ensure that space in the program is available.*