

# BIOCHEMISTRY AND MOLECULAR BIOLOGY, MS

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**Campus:** NYC

The 34-credit MS program in Biochemistry and Molecular Biology (MSBMB) offers students a professional development graduate degree with enhanced capability and competitiveness in career-related biochemistry, molecular biology, and health-related fields. This is a thesis-based graduate program that contains training in ethical and regulatory issues, a requirement of all new Federal grant applicants. The curriculum emphasizes technological applications and is designed to provide students with a strong grounding in running a research laboratory.

In addition to Pace University's research opportunities, students have the opportunity to do their research in the Department of Neuronal Cell Signaling at Cornell-Weil Medical School or have an international experience at the University of Technology, Sydney, Australia.

The program can be completed in one year.

Prerequisites for this program include a Bachelor's degree in Biochemistry, Biology, Chemistry, or a related field. Applicants who haven't completed such a major may be required to complete some or all of the following courses:

- 2 semesters of General Chemistry,
- 2 semesters of General Biology,
- 2 semesters of Organic Chemistry,
- 2 semesters of General Physics,
- 2 semesters of Calculus,
- 2 semesters of Physical Chemistry,
- either 2 semesters of Biochemistry or 1 semester of Biochemistry and
- 1 semester of Molecular Biology.

<b>Code</b>	<b>Title</b>	<b>Credits</b>
BMB 601	Graduate Colloquium	1
BMB 605	Scientific Communications	2
BMB 609	Special Topics in Biochemistry and Molecular Biology	2
BMB 610	Seminar	1
BMB 620	Quantitative Methods: Data Analysis and Presentation	3
BMB 710	Research I	4
BMB 711	Research II	4
BMB 712	Thesis Preparation	1
BMB 626	Cellular Biochemistry and Advanced Molecular Biology	4
BMB 629	Molecular Biochemistry	4
BMB 630	Bioinformatics, Genomics and Proteomics	4
BMB 640	Physical Biochemistry	4
<b>Total Credits</b>		<b>34</b>