Emma Michienzi

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Education

College of the Holy Cross, Worcester, MA   May 2026
B.A. in Chemistry with a Concentration in   GPA: 3.72/4, Dean's List
Biochemistry

Coursework

- General Chemistry I&II with Lab
- Organic Chemistry I&II with Lab
- Introductory Biology with Lab
- Instrumental Chemistry with Lab
- Quantum Mechanics with Lab
- Calculus I,II,&III
- Cellular Biology with Lab
- Biochemistry I&II with Lab
- Inorganic Chemistry
- Advanced Biochemistry

Experience

Research and Development Lab Assistant, **Nova Biomedical**, Waltham, MA (May 2024-August 2025)

Assisted in the Development of new immunoassays for the Allegro Analyzer, Performed precision and stability tests for immunoassay development, Supported manufacturing by synthesizing reagents for immunoassays, Supported the development of new Automated Cell Culture Analyzer(Flex 3), Analyzed and presented data using Excel and PowerPoint

Research Assistant, **Chemistry Department**, College of the Holy Cross (August 2024-May 2026)

Working to understand and reverse the misfolding of peptides associated with neurodegenerative diseases, Utilized infrared spectroscopy to study structural changes in peptides, Synthesized a variety of peptides using FMOC solid phase chemistry, Worked with the Seelos Scholar program to mentor incoming freshman, Presented findings at multiple Academic Conferences

Lab TA, **College of the Holy Cross,** Worcester, MA (August 2023- May 2026)

Cleaning glassware, prepared solutions, assisted students with various lab techniques, and ensured proper safety procedures were followed. Graded assignments and worked with students on their understanding of class and lab concepts. Worked in general, organic and physical chemistry labs

Substitute Teacher, **Walpole Public Schools,** Walpole, MA (May-June 2023)

Taught and supervised up to 25 students in grades Kindergarten through 12

Hostess, **Beacons Restaurant**, Walpole, MA (October 2019- May 2024)

Planned reservations and functions, Organized servers and bartenders, Placed takeout orders

Skills

Computer: Python Coding, Microsoft 365, Google Suite, ChemDraw

Lab: Infrared Spectroscopy, Mass Spectrometry, Thin Layer Chromatography, Gas Chromatography, Vacuum Filtration, Recrystallization, Reflux, Semi-Microdistillation, High Performance Liquid Chromatography, Bacterial Plating and Transformations, blood-gas analyzers, Automated Cell Culture Analyzer, Centrifuge, nanodrop, immunoassays