MPS Biotechnology - a professional industry-relevant and practical graduate degree

» Biotechnology is a growing economic sector creating new opportunities for qualified individuals.
» Courses in life science, management, and business are combined to create an effective curriculum.
» Ideal for working professionals pursuing management opportunities in Biotech.
» Students learn critical skills needed in the biotech industry including literature research and analysis, written and oral communication, experimental design, regulatory, legal, and business management techniques.

When you choose UMBC Professional Programs, you can count on:

» Courses taught by instructors who are subject-matter experts with extensive industry experience.
» Flexible evening class schedule that accommodates working professionals.
» Wide-ranging resources offered at a top-notch public research university.

Why UMBC?

» The excellent academic and research expertise in the biosciences provides the foundation for the M.P.S. Biotechnology programs and certificate programs.
» The 2017 U.S. News & World Report Best Colleges guide ranks UMBC in the top five on its closely-watched Most Innovative Schools list and has recognized UMBC as a global leader in higher education.
» UMBC provides a comprehensive and quality education at a manageable cost.

For Program Information:

umbc.edu/biotechsg

Dr. Annica Wayman
Associate Dean for Shady Grove Affairs
awayman@umbc.edu | 301-738-6092

For Application Information:

sgprofessionalprograms@umbc.edu

Master’s of Professional Studies:
Biotechnology

Post-Baccalaureate Certificate:
Biotechnology Management

Post-Baccalaureate Certificate:
Biochemical Regulatory Engineering
Admission Requirements

**M.P.S.:**

**Graduate Certificates:**

**Biotechnology Management:**

**Biochemical Regulatory Engineering:**

- A bachelor's degree in science, engineering, or any subject with sufficient coursework in relevant life science topics such as foundations of biology and organic chemistry OR a bachelor's degree in any subject combined with work experience in the life sciences.

- Minimum undergraduate GPA of 3.0 on a 4.0 scale.

- GRE scores are not required.

**International Applicants:**

Please visit umbc.edu/biotechsg for detailed admissions requirements for international applicants.

- Please pay special attention to English proficiency and testing requirements.

**Admission Deadlines**

**Fall:** August 1

**Spring:** December 1

For detailed application process visit: umbc.edu/biotechsg

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**Master's Program**

**Master's of Professional Studies (M.P.S.): Biotechnology**

30 Credits (10 courses)

**Core Courses**

18 credits (6 Courses)

- BTEC 675: Business of Biotech*
- BTEC 655: Emerging Topics in Biotechnology Seminar
- BTEC 656: Experimental Design
- BTEC 665: Management, Leadership and Communication
- BTEC 670: Legal and Ethical Issues in the Science Professions
- BTEC 654: Capstone

* BTEC 675 is recommended for the first semester of enrollment

**Biotechnology Electives**

12 Credits (Any 4 Courses)

**Regulatory Electives**

- BTEC 660: Regulatory Issues in Biotechnology
- BTEC 662: Good Manufacturing Practices for Bioprocesses
- BTEC 664: Quality Control and Quality Assurance for Biotechnology Products
- BTEC 666: Biotechnology GMP Facility Design, Construction and Validation

**Bioprocessing Electives**

- BTEC 653: Principles of Upstream Bioprocessing
- BTEC 658: Principles of Downstream Bioprocessing
- BTEC 659: Fundamentals of Industrial Bioprocessing

**General Electives**

- BTEC 657: Devices and Combination Products

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**Certificate Programs**

**Post-Baccalaureate Certificate: Biotechnology Management**

12 Credits (4 courses)

- BTEC 665: Management, Leadership and Communication
- BTEC 670: Legal and Ethical Issues in the Science Professions
- BTEC 675: Business of Biotechnology
- BTEC 685: Project Management Fundamentals

**Post-Baccalaureate Certificate: Biochemical Regulatory Engineering**

12 Credits (4 courses)

- BTEC 660: Regulatory Issues in Biotechnology
- BTEC 662: Good Manufacturing Practices for Bioprocesses
- BTEC 664: Quality Control and Quality Assurance for Biotechnology Products
- BTEC 666: Biotechnology GMP Facility Design, Construction and Validation

Please consult umbc.edu/biotechsg/schedule for schedule.