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 2021 U.S. News & World Report Best Colleges rankings name UMBC a leading U.S. university: the #9 most innovative university and #11 top university for undergraduate teaching in the nation.
» UMBC provides a comprehensive and quality education at a manageable cost.

For program information:
Dr. Mark Schenerman
Graduate Program Director
mark01@umbc.edu

For application information:
Karina Jenkins
Program Manager
sgprofessionalprograms@umbc.edu
443-612-1316
Master’s of Professional Studies (M.P.S.):

Biotechnology

30 Credits (10 courses)

CORE COURSES

18 CREDITS (6 COURSES)

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

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 Upstreaming
- BTEC 658: Principles of Downstream Bioprocessing
- BTEC 659: Fundamentals of Industrial Bioprocessing

GENERAL ELECTIVES

- BTEC 657: Devices and Combination Products

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 Principles of the Biotechnology Industry
- 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

OFFICE OF PROFESSIONAL PROGRAMS

UMBC’s Office of Professional Programs offers a broad array of professionally focused master’s degree and certificate programs that address industry needs while anticipating future opportunities.

professionalprograms.umbc.edu