

BIOTECHNOLOGY, MS/MBA

MS in Biotechnology/MBA (<https://advanced.jhu.edu/academics/graduate/ms-biotechnology/ms-biotechnology-mba-dual-degree/>)

This dual degree graduate program prepares bioscience professionals for success in both the science and business of biotechnology. Drawing from the strengths of the Krieger School of Arts and Sciences and the Carey Business School, this innovative program allows students to earn two advanced degrees in less time than it takes to earn them separately. Dual degree recipients receive both diplomas upon completion of both programs: one from the Krieger School of Arts and Sciences and one from the Carey Business School.

Program Features

- Complete simultaneously or sequentially
- Receive two degrees
- Count three courses from the MS program toward the Carey Business School 54-credit Professional MBA program and, as a result, complete the MBA with 42 credits of Carey courses
- Although not required, choose from eight in-demand specializations, including: business analytics and risk management; entrepreneurship, innovation, and technology; financial management; health care management, innovation, and technology; investments; digital marketing; entrepreneurial marketing; and public and private sector leadership.

Admissions Criteria for All Advanced Academic Programs (<https://e-catalogue.jhu.edu/arts-sciences/advanced-academic-programs/Admission/#admissionrequirementstext>)

PROGRAM-SPECIFIC REQUIREMENTS

In addition to the materials and credentials required for all programs, the Master of Science in Biotechnology requires an undergraduate degree in the natural sciences or engineering with at least a 3.0 on a 4.0 scale in undergraduate studies (relevant work experiences are also considered). Applicants should have coursework in the following:

- Two semesters of biology
- Two semesters of chemistry
- One semester of organic chemistry
- One semester of biochemistry
- One semester of molecular biology

Additional Requirements

For the MS in Biotechnology/MBA Dual Degree, **two letters of recommendation are required.**

MBA Admissions Requirements

- GRE or GMAT exam*
- At least two years of progressive, full-time, professional experience after the completion of undergraduate studies for the MBA

*A waiver of the GRE or GMAT exam may be approved if a candidate has:

- Completed a graduate degree and can demonstrate quantitative ability through coursework of B or better in statistics, corporate finance, or microeconomics
- Completed an undergraduate degree and has at least five years of professional experience, provided that applicant has also taken at least one course in statistics, corporate finance, and microeconomics, earned a B or better, and earned an overall GPA of 3.0 or better
- A professional designation, such as CPA or CFA

Program Requirements

The program requires 82 total credits, 42 credits for the MBA (20 credits Flex MBA Business Foundation and 22 credits of business electives) and 40 credits in Biotechnology. The 42 MBA credits must be completed with "BU" courses from the Carey Business School. Dual degree recipients receive both diplomas upon completion of both programs.

Biotechnology Requirements

Code	Title	Credits
Core Courses - Required:		
AS.410.602	Molecular Biology (Starting Fall 2024, AS.410.606 Emerging Applications in Biotechnology will replace this requirement)	4
AS.410.603	Advanced Cell Biology	4
AS.410.604	Cellular Signal Transduction	4
AS.410.607	The Biotechnology Enterprise	4
Electives (Six courses)		24
AS.410.645	Biostatistics (students who take Biostatistics may take one additional Carey Business School elective in place of BU.510.601 Statistical Analysis)	
Total Credits		40

MBA Requirements

Code	Title	Credits
Business Foundation Courses - Required:		
BU.210.620	Accounting and Financial Reporting	2
BU.520.601	Business Analytics	2
BU.120.601	Business Communication	2
BU.220.620	Business Microeconomics	2
BU.231.620	Corporate Finance	2
BU.142.601	Leadership and Organizational Behavior	2
BU.410.620	Marketing Management	2
BU.680.620	Operations Management	2
BU.510.601	Statistical Analysis (Students who complete AS.410.645 Biostatistics may take an additional Carey Business Elective in place of BU.510.601 Statistical Analysis.)	2
BU.150.620	Strategic Management	2
Electives (22 credits)		22

Select 11 two-credit courses. Students may fulfill this requirement with any Carey courses for which they meet the pre-requisites and enrollment criteria.

Total Credits

42