

BIOTECHNOLOGY ENTERPRISE, CERTIFICATE

Graduate Certificate in Biotechnology Enterprise (<https://advanced.jhu.edu/academics/certificates/biotechnology-enterprise/>)

The Graduate Certificate in Biotechnology Enterprise program is designed to complement students' pre-existing scientific knowledge to help them bring scientific discoveries to the wider public. Students will gain a solid understanding of the enterprise and entrepreneurial skills needed in a successful biotechnology enterprise.

This certificate consists of five graduate-level courses and is a flexible option for working professionals looking to enhance their skill set.

Admissions Criteria for all Advanced Academic Programs (<https://e-catalogue.jhu.edu/arts-sciences/advanced-academic-programs/enrollment-services/admission/>)

PROGRAM-SPECIFIC REQUIREMENTS

- Bachelor's degree from an accredited U.S. college or university. A bachelor's degree in the life sciences is recommended.
- Minimum GPA of 3.0 on a 4.0 scale. Meeting the minimum GPA requirement does not guarantee admission.

Program Requirements

Code	Title	Credits
Core Courses - Customizable		
Select two of the following:		8
AS.410.643	Managing and Leading Biotechnology Professionals	
AS.410.644	Marketing Aspects of Biotechnology	
AS.410.680	Finance for Biotechnology ¹	
Electives		
Select three of the following:		12
AS.410.607	The Biotechnology Enterprise	
AS.410.627	Translational Biotechnology: From Intellectual Property to Licensing ¹	
AS.410.637	Bioethics	
AS.410.642	Economic Dynamics of Change in Biotechnology	
AS.410.643	Managing and Leading Biotechnology Professionals	
AS.410.644	Marketing Aspects of Biotechnology	
AS.410.645	Biostatistics ¹	
AS.410.646	Creating a Biotechnology Enterprise	
AS.410.647	Research Ethics	
AS.410.649	Introduction to Regulatory Affairs	
AS.410.651	Clinical Development of Drugs and Biologics ¹	

AS.410.665	Bioscience Communication
AS.410.684	Technology Transfer & Commercialization
AS.410.687	Ethical, Legal & Regulatory Aspects of the Biotechnology Enterprise
AS.410.688	Project Management in Biotechnology
AS.410.689	Leading Change in Biotechnology
AS.410.703	Strategic Planning for the Biotechnology Enterprise
AS.410.704	Social Entrepreneurship in BioScience
AS.410.728	Managing Innovation in the Life Sciences
AS.410.732	Funding a New Venture
AS.410.756	Grants and Federal Funding for Biotechnology Enterprises

Total Credits **20**

¹ Also counts as science elective

See course requirements in the Center for Biotechnology Education (https://e-catalogue.jhu.edu/course-descriptions/_biotechnology/).