Master of Biotechnology Enterprise and Entrepreneurship

A successful biotechnology enterprise requires professionals with rigorous training in science and the ability to navigate the complexities of biotechnology commercialization. This program combines both to help build the biotechnology workforce of tomorrow. It is intended for biotechnology professionals who seek a career beyond the lab bench in an existing private enterprise or government organization or for those who seek to start a new biotechnology enterprise.

Designed for working adults, this program is primarily delivered in an online format and taught by faculty that work in the industry (both private enterprise and government). The curriculum is designed to prepare the next generation of interdisciplinary professionals to address current and future challenges in the biotechnology industry.

Admissions Criteria for All Advanced Academic Programs

In addition to the materials and credentials required for all programs, the Master of Science in Biotechnology Enterprise and Entrepreneurship requires an undergraduate degree in the life sciences or engineering from a four-year college, with a grade point average of at least a 3.0 on a 4.0 scale. Applicants must provide:

- Resume
- Statement of Purpose: Please provide a statement, up to one page in length, describing your personal background and/or a part of your life experience that has shaped you or your goals. Feel free to elaborate on personal challenges and opportunities that have influenced your decision to pursue a graduate degree at Johns Hopkins.
- Program-Specific Prerequisite Courses:
  - One semester of biochemistry
  - One semester of cell biology

Program Requirements

Students in the Master of Biotechnology Enterprise and Entrepreneurship program must complete ten courses:

- Six required core courses
- One customizable core course

Electives (three required)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AS.410.648</td>
<td>Clinical Trial Design and Conduct</td>
<td>12</td>
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<tr>
<td>AS.410.651</td>
<td>Clinical Development of Drugs and Biologics</td>
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<tr>
<td>AS.410.673</td>
<td>Biological Processes in Regulatory Affairs</td>
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<td>AS.410.676</td>
<td>Food And Drug Law</td>
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<tr>
<td>AS.410.683</td>
<td>Introduction to CGMP Compliance</td>
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<tr>
<td>AS.410.684</td>
<td>Technology Transfer &amp; Commercialization</td>
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Total Credits 12

Learning Outcomes

Graduates of this program should be able to:

- Apply leadership strategies that leverage the interdisciplinary nature of the biotechnology industry in the areas of business, science, and regulation
- Construct business plans incorporating business, science, and regulatory components to assess innovative life science technologies
- Apply specialized financial acumen to create sound financial funding strategies for the life science industry
- Defend a business strategy for a company in the life science industry
- Demonstrate the ability to communicate scientifically, both orally and in writing
• Demonstrate the ability to collaborate in a diverse group to achieve an objective