



# Intro to Biotech

## **Description**

This course explores the business considerations in biotech as well as basic biological processes that are foundational to the biopharma and life sciences industry. The course is divided into two parts: *Intro to Business* and *Intro to Science*. *Intro to Business* provides foundational information on the Biopharma industry and regulation through instruction, storytelling, and small group sessions. Topics such as market share, phases of development, patient population, and safety profile will be reviewed. *Intro to Science* is designed for non-scientists and focuses on the basic biological processes that help students' overall understanding of how a life science company operates. Lab work will also be implemented during in-person sessions.

## **Format**

**Online:** Course will occur over six days, 2.5 hours per day.

**In-Person:** Course will be formatted as a two full-day workshop.

## **Topics**

### ***Intro to Business***

- Origins of the Biotech Industry: A Brief History
- Addressing Unmet Medical Needs
- Biotech Entrepreneurships
- Preclinical & Clinical Development
- Creating Barriers to Entry: Market Exclusivity

### ***Intro to Science***

- Industry Overview
- Industry Applications: The Raw Materials of Biotechnology: Proteins and Cells, DNA
- Molecular Biology: From DNA to Protein
- Genetics: Chromosomes, Genes, and Genomes
- Genetic Engineering
- The Immune System
- Industry Applications: Mitigating Disease

For more information or questions, contact [courses@massbioed.org](mailto:courses@massbioed.org).

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