



Intro to Science of Biotech

Description

This course is designed for the non-scientist. The class acts as a survey of the basic biological processes that are foundational to the biopharma and life sciences industry. Participants will apply their new understanding of basic cell and molecular biology to the work of life sciences companies that research and develop therapies and products to improve lives, enhance agriculture, and decrease the dependence on fossil fuels.

Format

- When offered in person, the course will start at 9:00 AM - 5:00 PM.
- When offered online, the course will occur over three days, 2.5 hours per day.

Topical Agenda

Session 1:

- Industry Overview
- The Raw Materials of Biotechnology: Protein and Cells
- Industry Applications: The Raw Materials of Biotechnology: DNA

Session 2:

- Molecular Biology: From DNA to Protein
- Genetics: Chromosomes, Genes and Genomes
- Industry Applications

Session 3:

- Genetic Engineering
- The Immune System
- Industry Applications: Mitigating Disease