



BioPrinciples Online: Biotech for the Non-Scientist

BioPrinciples Online is an interactive, highly animated course that allows you to learn at your own pace from any place with internet access.

Industry Overview

- What the Heck is Biotech?
- Industry Sectors
- Biotechnology Entities

Biology Basics

- Cell Characteristics
- Cell Components
- Chemical Composition
- Cell Function

DNA

- The Cause of Inheritance
- DNA Structure
- Base pairs
- Base Sequences
- Chromosomes & Genes
- DNA Isolation and Extraction

Proteins

- Protein Function
- Protein Expression
- Protein Structure
- Protein Products

DNA Tools

- DNA Isolation
- Restriction Enzymes
- Gel Electrophoresis
- DNA Sequencing
- PCR

Cloning and Gene Expression

- Cloning and Gene Expression in Unicellular Organisms
- Cloning and Gene Expression in Multicellular Organisms

Genomics and Proteomics

- What is a Genome?
- Genomic Tools
- What is a Proteome?
- Proteomics
- Proteomic Tools

Drug Discovery and Development

- Drug Discovery
- Drug Development
- FDA

Deliverables: A downloadable 120 page reference manual containing the entire class script and a glossary of biotech terms. You will have 60 days to view the class an unlimited number of times.