

Applications In BioTechnology



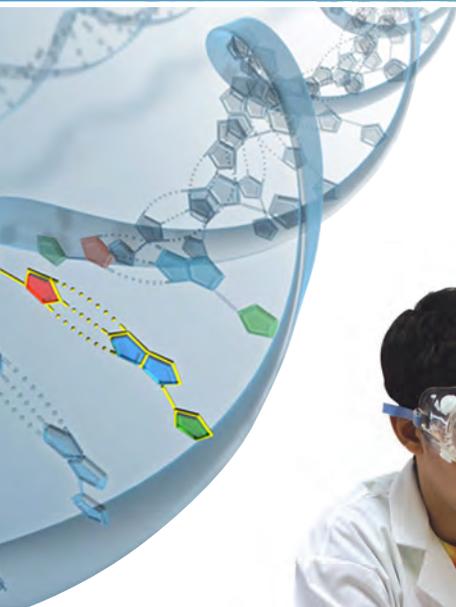
ENERGY CONCEPTS, INC.



Technology Education Concepts

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New England Academic Representative:



Applications in Biotechnology?

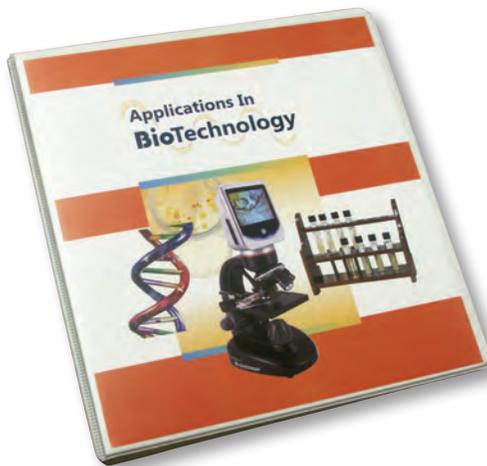
ECI's **Applications In Biotechnology** Course is a contextual learning course that is designed to form the second semester of a one year course ideally suited for both science and technology applications. The Student Textbook and Student Laboratory Manual are directly correlated. The laboratory portion combines questioning, observing, creating, experimenting and scientific inquiry to learn about the science and engineering applications that are used in biotechnology. Students will perform experiments that actually show how biotechnology is used in different fields throughout the industry.

Students will perform experiments demonstrating how biotechnology is used in different industries including: agriculture, medicine, food biotechnology, environmental science, immunology, bioengineering, nanotechnology. They will also evaluate bioethics and social concerns related to biotechnology. Lastly, they will have an opportunity to examine all the aspects of the biotechnology industry.



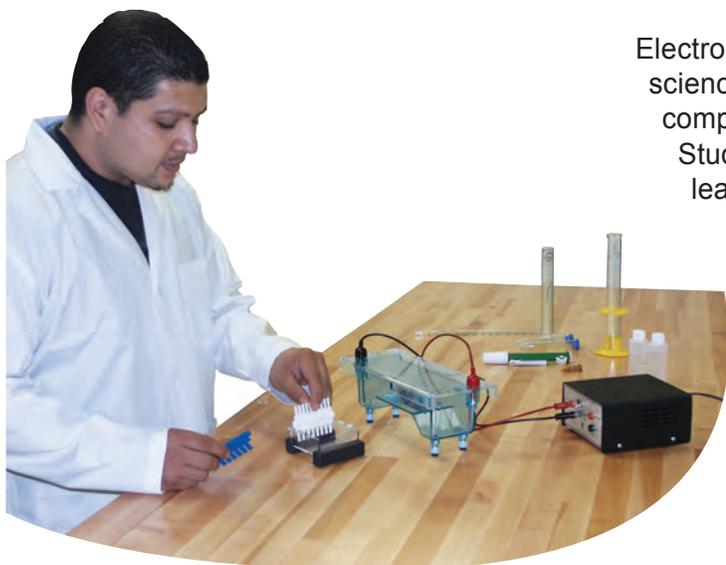
Applications in Biotechnology

- Chapter 1 Examining the Role of Biotechnology in Agriculture
- Chapter 2 Examining Biotechnology's Role In Medicine
- Chapter 3 Food Biotechnology
- Chapter 4 Applying Biotechnology to the Environment
- Chapter 5 Understanding Bioengineering and Nanotechnology
- Chapter 6 Immunology
- Chapter 7 Examining Bioethics
- Chapter 8 Examining All Aspects of Industry

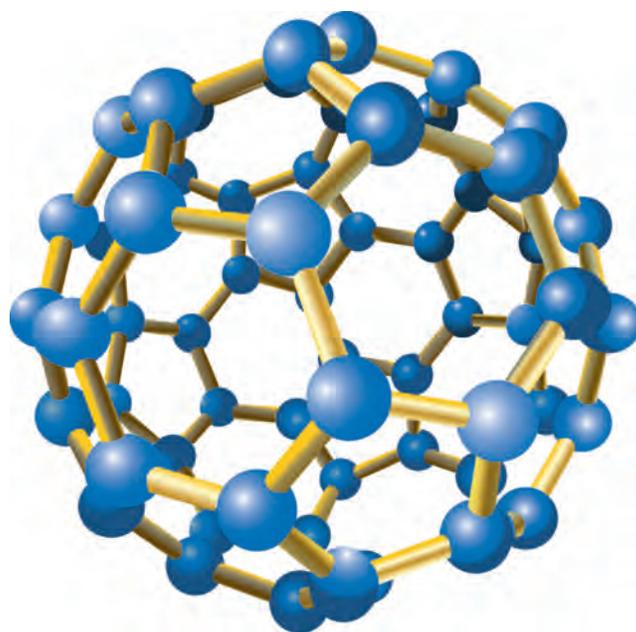


Text Book

The text book is written to provide a broad overview of the concepts that are applicable to biotechnology as well as to describe many of the different types of applications of biotechnology in industry. The text is clearly written and professionally illustrated.

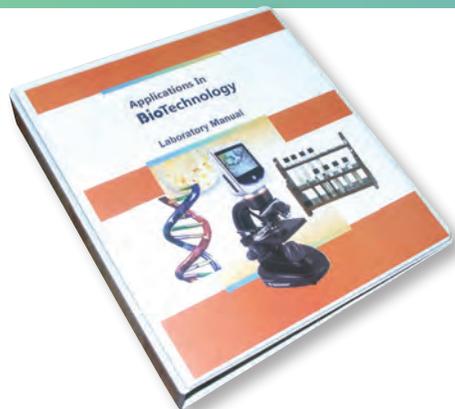


Electrophoresis technology is a foundation of biotechnology science. It can be used to compare fragments of DNA for comparison and evaluation applications in genetic engineering. Students will use this equipment in several experiments and learn what can be accomplished with this technology



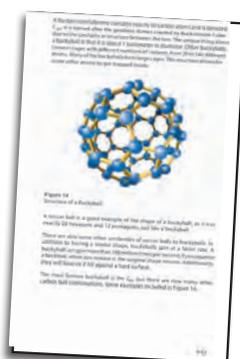
Nanotechnology

One application of biotechnology is nanotechnology. As scientists have learned about the Buckminster Fullerene, this led to new ways to deliver medicines throughout the body, new ways to make materials, improvements in electronic devices, and a myriad of other new advances.



Laboratory Manual

ECI's Laboratory Manual is designed to help the student develop a thorough understanding of the subject matter. Clearly written and professionally illustrated, the manual provides the most specific laboratory setup and easy-to-use procedures available.



Instructor's Resource Guide

A comprehensive Instructor's Guide is included to provide coordination and efficient equipment utilization. It contains scheduling guides, helpful hints and tips, and demonstrations. The Instructor's Guide includes sample data, expected results, and answers for easy comparison to each student's results.

Student Journal

A clear, easy to follow format for students' interpretations and answers is available. The flexible design allows for expansion with additional journal notes when needed. The layout of the journal encourages greater comprehension on the students' part and allows for a permanent record for future reference.



Laboratory Furniture

ECI's modular design lab furniture allows a wide range of custom configurations. From island-style workstations with convenient storage bases to mobile units, this furniture fits beautifully into every lab. It is constructed with fine craftsmanship. Durable high-quality materials and rugged hardware ensure that it will stand up for years. A variety of wood grains and color combinations are available.



Storage Solutions

Function always follows form with ECI lab furniture. Die-cut foam storage inserts organize your equipment and assist in component inventory. Each drawer and door has its own key lock to provide added inventory control during and after class.

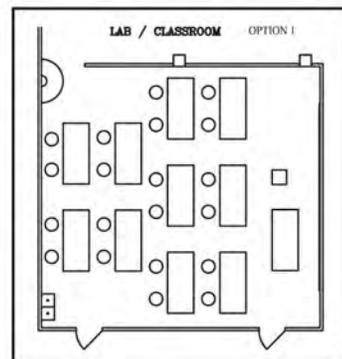
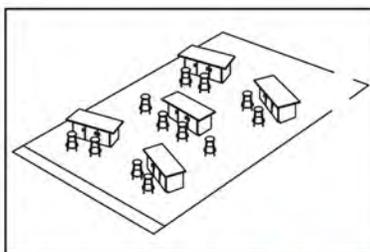
More From ECI: Material Science Technology

An innovative and motivating laboratory course including these units:
Solids, Metals, Ceramics, Polymers, and Composites.

Complete Customer Service

Our experienced salespeople will help you with your purchasing needs by providing budgetary pricing and detailed specifications. They can provide a total turnkey operation including equipment, storage benches, and blueprint layouts of your new laboratory.

ECI also supports your purchase by providing instructor training and equipment orientation, initial inventory of equipment, and a toll-free telephone number for technical support from our competent engineers.



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