

# AS & BS IN BIOTECHNOLOGY

For more information about course selection and educational planning, please make an appointment with STEM counselor, Angela Pan.



## BIOTECH LAB ASSISTANT CERTIFICATE

**BIOTECH 2**  
Biotechnology I (4)

**BIOTECH 3**  
Biotechnology II (4)

**CHEM 51**  
Fundamentals of Chemistry (5)

## BIOTECH RESEARCH LAB ASSISTANT CERTIFICATE

**MICRO 20**  
General Microbiology (4)

**MATH 227**  
Statistics (4)

**BIOTECH 8**  
Biological Research Internship (2)

## AS BIOTECHNOLOGY

**BIOTECH 6 (2)**  
Quality Control/ Assurance &  
**General Education (33) & Other program requirements:**  
Biol 3 or 6 (4 or 5)  
Chem 101 (5)  
Chem 102 (5)  
English 101 (3)

## MIRACOSTA ONLINE COURSES

\*Students from LAMC must take these courses in the Spring or Summer term before starting at MiraCosta.  
NOTE: BTEC 210/211 are not offered in the Summer

**BTEC 120**  
Business and Regulatory Practices in Biotech

**BTEC 210**  
Data Analysis with Excel

**BTEC 211**  
Technical Writing for regulated environments

## YEAR THREE

### FALL

**BTEC 221**

Bioprocessing: Cell Culture and Scale-up (1.5)

**BTEC 222**

Bioprocessing: Large Scale Purification (1.5)

**BIO 340**

Molecular & Mechanisms of Disease (3)

**BTEC 300**

Supply Chain and Enterprise Resource Planning  
in Biomanufacturing (3)

**BTEC 360**

Design of Biomanufacturing Facilities, Critical  
Utilities, Processes, and Equipment (3)

### SPRING

**BTEC 310**

Biomanufacturing Process Sciences (5)

**BTEC 330**

Advanced Topics in Quality Assurance and Regulatory  
Affairs (4)

**BTEC 340**

Six Sigma and Lean Manufacturing (3)

**BUS 302**

Leadership & Personal Development (3)

## YEAR FOUR

### FALL

**BTEC 400**

Bioprocess Monitoring and Control (4)

**BTEC 320**

Design of Experiments for Biomanufacturing (4)

**BTEC 410**

Methods in Quality, Improvements,  
Investigations, and Audits (4)

**PHIL 302**

Bioethics (3)

### SPRING

**BTEC 460**

Capstone Seminar in Biomanufacturing  
Technologies (3)

**BTEC 470**

Capstone Seminar in Biomanufacturing Quality (3)

For more information about the biotechnology program  
at MiraCosta College contact

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**BS in BIOTECHNOLOGY at  
MIRA COSTA CC**