

# Miramar college Biotechnology program

## Certificate of Achievement or Associate's Degree



### Biology 131

- Introduction to Biology-4 units
- Basic Biotechnology lab training-50 hours
- Online lecture and on-campus lab

\*\*Articulation with Regional HS

### Biology 132

- Hands-on lab training-4 units and over 130 hours of lab training
- Molecular Biology, PCR, immunological techniques, bacterial cell culture, use of lab instruments/equipment, DNA extraction and analysis, solutions and dilutions, resumes

### Biology 133

- Hands-on lab training-4 units and over 130 hours of lab training
- Advanced Molecular Techniques: DNA and Protein extraction/analysis, mammalian cell culture, PCR, CRISPR-resumes and mock interviewing

### Biology 136

- Quality and Business regulatory practices-3 Unit lecture online, Basics of Quality training related to Biotechnology industry-GMP, GLP, ISO, FDA => CQIA exam preparation

# Education Pathways to Biotech careers

Multiple entry points and pathways

STEM University degrees:

- Biotechnology/Biomanufacturing
- Biology
- Biomedical engineering/ Bioengineering
- Chemistry/Biochemistry
- Chemical Engineering
- Engineering
- Other areas: Marketing, Business, Accounting/Finance, Sales, Technical Support, Legal, Computer Science

<https://digitalworldbiology.com/archive/career-pathways-biotechnology>

