

# Biotechnology High School Course Sequence

## Grade 9

Biology/Genetics  
Chemistry  
Digital Literacy  
English I  
Health/Fitness I

Geometry or Algebra II/Trig  
Intro to Experimental Design  
Spanish I or II  
World Cultures

## Grade 10

Algebra II/Trig or IB Math SL I  
Biotech Lab Skills  
Explorations in Economics  
English II

Health/Fitness II  
Physics  
Molecular/Agricultural Biotechnology  
Spanish II or III  
US History I

## Grade 11

Creativity, Action, Service (CAS) 75 hours  
IB Biology HL I  
IB Language and Literature HL I  
IB History SL/TOK  
IB Math SL I or IB Math SL II

IB Physics HL I or IB Chemistry HL I  
Leadership, Exercise & Personal Growth (LEAP) I  
Spanish III or IB Spanish SL  
Electives

## Grade 12

CAS (75 hours)  
Extended Essay (EE) Senior Thesis  
IB Biology HL II  
IB Language and Literature HL II  
IB Math SL II or AP Calculus AB/BC

IB Physics HL II or IB Chemistry HL II  
IB Spanish SL  
LEAP II  
Senior Internship  
Theory of Knowledge (TOK)  
Electives

## Elective Courses

Advanced Experimental Design  
Anatomy and Physiology  
AP Computer Science A  
BioEngineering  
BioMedical Engineering  
Business Communication (Public Speaking)  
Cell Culture and Molecular Biology Techniques

Developmental Biology  
Environmental Biotechnology  
Forensic Analysis  
Introduction to Film & Media  
Genomics, Proteomics and Bioinformatics  
Neuroscience and Biopsychology

+ Visual & Performing Arts Option II Graduation Requirement