

# 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 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  
AP Spanish Language & Culture  
BioBusiness  
BioEngineering  
BioMedical Engineering  
Cell Culture and Molecular Biology Techniques

Developmental Biology  
Environmental Biotechnology  
Forensic Analysis  
Independent Research  
Introduction to Film & Media  
Genomics, Proteomics and Bioinformatics  
Neuroscience and Biopsychology  
Public Speaking  
Seminar in Biotechnology

+ Visual & Performing Arts Option II Graduation Requirement