

# Biotechnology High School Curriculum

## Scope & Sequence

### Grade 9

Intro to Biology/Genetics  
Intro to Chemistry  
Intro to Experimental Design  
Geometry or Algebra II/Trig  
Digital Literacy  
English I  
Spanish I or II  
World Cultures  
Health / Fitness I

### Grade 11

IB Biology HL  
IB Physics HL or IB Chemistry HL  
IB English HL  
Spanish III or IB Spanish SL  
IB History SL  
IB Math 11 SL or IB Math 12 SL  
LEAP  
Creativity, Action, Service (75 hours)  
Electives

### Grade 10

Molecular and Agricultural Biotechnology  
Biotech Lab Skills  
Physics  
Bioethics  
Algebra II/Trig or IB Math 11 SL  
English II  
Spanish II or III  
US History I  
Health / Fitness II

### Grade 12

IB Biology HL  
IB Physics HL or IB Chemistry HL  
IB Math 12 or AP Calculus BC  
IB English HL  
IB Spanish SL (if needed)  
LEAP  
Financial Literacy  
Senior Internship  
Theory of Knowledge  
Creativity, Action, Service (75 hours)  
IB Extended Essay (Senior Thesis)  
Electives

## Electives

Advanced Experimental Design  
AP Spanish  
Advanced Topics in Chemistry  
Anatomy and Physiology  
BioBusiness  
BioEngineering  
BioMedical Engineering  
Developmental Biology  
Environmental Biotechnology  
Forensic Analysis  
Independent Research  
Neuroscience and Biopsychology  
Public Speaking

**+ Visual & Performing Arts Option II Graduation Requirement**