



## BIOTECHNOLOGY PATHWAY

Required Classes:	Optional Recommended Classes:
<b>Level 1: 9th &amp; 10th Grade</b>  <i>STEM Inquiry Lab</i> 2.5 credits <i>Careers in Life Sciences</i> 2.5 credits <i>Biology</i> 5 credits	<ul style="list-style-type: none"> <li>• Health &amp; Wellness</li> <li>• Nutrition</li> <li>• Intro to Computer Science: Apps, Robots, and Python (PLTW)**</li> <li>• Digital Forensics and Cryptography (PLTW)**</li> <li>• PLT4M</li> <li>• Principles of Ecology</li> </ul>
<b>Level 2: 11th &amp; 12th Grade</b>  All pathway students must also recertify for CPR and First Aid.  <i>Chemistry</i> 5 credits <i>Biotechnology Methods Lab++</i> 2.5 credits	<ul style="list-style-type: none"> <li>• PLT4M</li> <li>• Science Fiction</li> <li>• Technical Writing</li> <li>• AP Psychology**</li> <li>• AP Language &amp; Composition**</li> </ul>
<b>Level 3: 11th or 12th Grade</b>  Students must select a minimum of 5 credits from the courses below.  <i>Bioethics</i> 2.5 credits <i>AP Biology**</i> 5 credits <i>Human Anatomy &amp; Physiology++</i> 5 credits <i>Topics in MET++</i> 2.5 credits <i>Internship</i> 2.5 credits <u>or 5 credits</u>	<ul style="list-style-type: none"> <li>• Fitness &amp; Wellness</li> <li>• AP Calculus**</li> <li>• AP Statistics**</li> <li>• AP Environmental**</li> <li>• AP Physics **</li> </ul>

5 credits = Full Year Course

2.5 credits = Semester Course

\*\*Advanced Coursework Options

++Technical Classes

### Skills Thread:

- Developing and Using Models
- Experimental Design
- Engineering Design Process
- Microscopes
- Micropipetting
- Chromatography
- Serial Dilution
- Diagnostic Testing
- Aseptic Technique
- Gram Staining
- Electrophoresis
- PCR programming
- CRISPR
- Analyzing and Interpreting Data
- Using Mathematics and Computational Thinking
- Constructing Explanations and Designing Solutions
- Engaging in Arguments From Evidence
- Communicating Information

### Certifications

- OSHA 10
- CPR/AED/First Aid (AHA)