Pathway Description:
Biomedical Science students have an opportunity to experience real-world challenges like those experienced by true biomedical science professionals. Students will work with the same tools used by professionals in hospital and lab settings; engage in fascinating, hands-on activities; and work together in groups and teams to find solutions to problems. Biomedical science students gain in-demand knowledge and skills, and leave high school with a skill-set they will use for the rest of their lives—in any career path they take.

Key Competencies:
- Explore concepts of biology and medicine to determine factors that led to the death of a person
- Examine autopsy reports, investigate medical history, and explore medical treatments that lead to improving the health of individuals
- Examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis
- Build organs and tissues on a skeletal mannequin
- Use data acquisition software to monitor body functions
- Take on the roles of biomedical professionals to solve real-world medical cases
- Investigate how to prevent, diagnose, and treat diseases
- Explore how to detect and fight infection
- Screen and evaluate the code in human DNA
- Evaluate cancer treatment options
- Explore immunology, surgery, genetics, pharmacology, medical devices, and diagnostics as they relate to real-world cases
- Design innovative solutions for pressing health challenges of the 21st century
- Design a biomedical project with a mentor or advisor from a university, medical facility, or research institution

Courses (HS Credits):
- 7017 Principles of Biomedical Science - PLTW (2)
- 7027 Human Body Systems - PLTW (2)
- 7037 Medical Interventions - PLTW (2)
- 7046 Biomedical Innovation - PLTW (2)

Total College Credits: 0

Annual National Average Salary for Entry Level Biomedical Career: $70,000

Career Opportunities:

<table>
<thead>
<tr>
<th>Biomedical Scientist</th>
<th>Biotechnologist</th>
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<tbody>
<tr>
<td>Forensic Scientist</td>
<td>Clinical Biochemistry Scientist</td>
</tr>
<tr>
<td>Immunology Scientist</td>
<td>Medical Research Scientist</td>
</tr>
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