The Biomedical Academy challenges students to take on the same problems as biomedical science professionals, such as teaching healthy lifestyle choices, designing prosthetics, and using DNA gel electrophoresis to solve a crime. Working with the same tools used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find solutions to problems. In this small learning community, students have opportunities for leadership and enhancing soft skills in an academically rigorous environment.
SAMPLE CAREER-THEMED COURSES
* The sample program of study outlined below lists academy-specific courses and does not include the full list of graduation requirements in writing, math, VAPA, WL, etc. These courses are subject to change based upon industry trends. These courses are subject to change based upon industry trends.

9th Grade
• Principles of Biomedical Sciences: Students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, biology, medicine and research processes.

10th Grade
• Human Body Systems: Students examine the interactions of human body systems as they explore identity, power, movement, protection and homeostasis in the body. Exploring science in action, students take on the roles of biomedical professionals to solve real-world medical cases.

11th Grade
• Medical Interventions: Students follow the life of a fictitious family as they investigate how to prevent, diagnose and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices and diagnostics.

12th Grade
• Biomedical Innovation: In this capstone course, students design innovative solutions for the health challenges of the 21st century. Students address topics ranging from public health to biomedical engineering. They have the opportunity to work on an independent project with a mentor.

ACADEMY VS. NON-ACADEMY DATA (DISTRICT-WIDE)

<table>
<thead>
<tr>
<th>GPA</th>
<th>Attendance</th>
<th>A-G Completion</th>
<th>SBAC ELA</th>
<th>Graduation Rate</th>
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</thead>
<tbody>
<tr>
<td>Non-academy</td>
<td>2.75</td>
<td>95%</td>
<td>97%</td>
<td>69%</td>
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<tr>
<td>Academy</td>
<td>3.25</td>
<td>51%</td>
<td>59%</td>
<td>75%</td>
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</tbody>
</table>

CONTACT INFORMATION

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LEADERSHIP ACTIVITIES
• 2 Blood Drives per year
• Red Ribbon Week
• Blue Star Moms donation drive
• Middle School Leadership Conference Presenters
• Fundraising Events & Food Fairs
• Organize Field Trips and Guest Speakers
• Job Shadow at Kaiser Permanente Elk Grove Promenade Medical Offices