## Science and Research Academy

Paths: PLTW Biomedical, Forensic Science, Natural Sciences, and Teaching as a Profession

<table>
<thead>
<tr>
<th>Grade</th>
<th>Required Academy Courses</th>
<th>Suggested Academy Electives</th>
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<tbody>
<tr>
<td></td>
<td>PLTW Biomedical Pathway</td>
<td>Health Informatics Pathway</td>
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<tr>
<td>9</td>
<td>Freshman Seminar AND H. Principles of Bioscience</td>
<td>Freshman Seminar</td>
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<td></td>
<td>PLTW Pathway</td>
<td>Medical Research Pathway</td>
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<tr>
<td>12</td>
<td>H. Biomedical Innovations AND UNMC The Study of Patient Care</td>
<td>H. Biomedical Innovations</td>
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</tbody>
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### Career and Technical Student Organizations
- EdRising, HOSA,
- Work-Based Learning Experience

Internships, job shadowing, college and career fair with speakers, college field trip with pathway, Pre-ACT, ACT, career exploration, digital portfolio, interest inventory

### Industry Certifications
- CPR/First Aid, OSHA, CNA, EMT

### Available Advanced Placement and Dual Credit Opportunities
Links to each academy or pathway area for each school

<table>
<thead>
<tr>
<th>Computer Science and Technology Academy</th>
<th>Engineering and Design Academy</th>
<th>Science and Research Academy</th>
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<td>• PLTW Computer Science Pathway</td>
<td>• PLTW Engineering Pathway</td>
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<td>• Cybersecurity and Coding Pathway</td>
<td>• Precision Machining Pathway</td>
<td>• Health Informatics Pathway</td>
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<tr>
<td>• Computer Networking Pathway</td>
<td>• Drafting and Design Pathway</td>
<td>• Natural Sciences Pathway</td>
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<td>• Audio Video Production Pathway</td>
<td>• Robotics and Automation Pathway</td>
<td>• Teaching as a Profession Pathway</td>
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