### Cluster: Health Science  
**Pathway: Health Informatics**

<table>
<thead>
<tr>
<th>EDUCATION LEVELS</th>
<th>GRADE</th>
<th>English/Language Arts</th>
<th>Mathematics</th>
<th>Science</th>
<th>Social Studies/Science</th>
<th>Recommended Electives Use state course titles</th>
<th>Recommended Career and Technical Courses Source</th>
<th>SAMPLE – Occupations Relating to This Pathway</th>
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</thead>
<tbody>
<tr>
<td>MIDDLE</td>
<td>7</td>
<td>English 7 (1110)</td>
<td>Pre-Algebra (3112) or Algebra I (3130)</td>
<td>Life Science (4115)</td>
<td>U.S. History (2354)</td>
<td>Keyboarding/Middleware (2150); Computer Applications (667746)</td>
<td>Exploratory Health and Medical Sciences (6370)</td>
<td>Admitting Clerk Health Educator Health Care Administrator Medical Assistant Medical Billing/Patient Financial Services Risk Management Medical Information Technologist</td>
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<td>8</td>
<td>English 8 (1120)</td>
<td>Algebra I (3130) or Geometry (3143)</td>
<td>Physical Science (4125)</td>
<td>Civics &amp; Economics (2357)</td>
<td>Exploratory Health and Medical Sciences (6370)</td>
<td>Principles of Business and Marketing (6119)</td>
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<tr>
<td>SECONDARY</td>
<td>9</td>
<td>Honors English (1130)</td>
<td>Geometry (3143) or Algebra II (3135) or Trigonometry</td>
<td>Biology (4310)</td>
<td>World History/Geography I (2151)</td>
<td>Economics and Personal Finance (6120); Health &amp; PE (2 years); Spanish or Latin Foreign Language (3 years); Other Electives to Complement Pathway</td>
<td>Introduction to Health and Medical Sciences (6302)</td>
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<td>10</td>
<td>Honors English (1140)</td>
<td>Algebra II (3135) or Trigonometry</td>
<td>Chemistry</td>
<td>World History/Geography II (2161)</td>
<td>Medical Terminology (6369)</td>
<td>Computer Information Systems 6612</td>
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<td>12</td>
<td>Honors English (1160)</td>
<td>Elem Functions or Calculus or Probability and Stats</td>
<td>Physics/Physiology/Anatomy</td>
<td>US Army Government (2440)</td>
<td>Engineering</td>
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</tbody>
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**Additional Learning Opportunities:**  
- CTSO Organizations  
- HOSA  
- Work-Based Learning  
- Career Research  
- Cooperative Education  
- Internship  
- Mentorship  
- Job Shadowing  
- Service Learning Project  
- Student Apprenticeship

**List related certifications/credentials approved by VDOE and offered locally:**  
- MOS Access Examination  
- Microsoft Office Certification

**Workplace Readiness Skills for the Commonwealth (CTEC)**  
- MOS Excel Certification  
- Microsoft Office Specialist/Certification  
- MOS PowerPoint Examination  
- Microsoft Office Specialist/Certification  
- MOS Word Examination  
- Microsoft Office Certification

**SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY**  
Individual plans must include locally agreed upon courses at the postsecondary level (see page 3).

Pathway  
- Health Informatics  
- Associate Degree, College Certificate, or Apprenticeship  
- Bachelor's Degree  
- Postgraduate Degree