## HEALTH SCIENCES CAREER PATHWAY

<table>
<thead>
<tr>
<th>GRADE</th>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>REQUIRED COURSES</th>
<th>RECOMMENDED ELECTIVE COURSES</th>
<th>OTHER ELECTIVE COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>English 8</td>
<td>Algebra I or Geometry</td>
<td>Physical Science or Hon Earth Science</td>
<td>Civics</td>
<td>Foreign Language 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Hon English 9</td>
<td>Hon Geometry OR Hon Algebra 2 OR Honors Geometry AND Honors Alg. 2*</td>
<td>Hon Biology (integrated with Health &amp; Medical Sciences and Health 1)</td>
<td>AP World History or AP Human Geography</td>
<td>Health &amp; Medical Sciences (integrated with Bio and Health 1)</td>
<td>Foreign Language 2**</td>
<td>Accelerated Option (Hon Chem or Math)</td>
</tr>
<tr>
<td>10</td>
<td>Hon English 10</td>
<td>Hon Algebra II or Trig &amp; HMA</td>
<td>Honors HMSA Chemistry</td>
<td>AP World History or AP European History</td>
<td>HMSA TBD: Exploratory Rotations and Intro to Field Work</td>
<td>Foreign Language 3</td>
<td>Health 2/Research-skills 1 or 2 (1 credit)</td>
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<tr>
<td>11</td>
<td>AP English Language</td>
<td>Hon Math Analysis OR AP Calculus AB</td>
<td>Human Anatomy &amp; Physiology Bio 141 &amp; 142</td>
<td>AP US History or Scholars</td>
<td>Independent Research to present at VAJS Fall conference</td>
<td>Foreign Language 4</td>
<td>Elective (Recommended: Medical Terminology/Nutrition)</td>
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<tr>
<td>12</td>
<td>AP English Literature</td>
<td>Hon Calculus or AP Calculus AB or Ap Calculus BC</td>
<td>Hon Physics OR AP Biology OR AP Chemistry OR AP Physics</td>
<td>AP Government or Scholars</td>
<td>HMSA Internship/continued Research</td>
<td>AP Foreign Language (recommended) or new language 1 &amp; 2</td>
<td>Elective (Recommended: Developmental Psych/PSY 230 OR AP Psychology)</td>
</tr>
</tbody>
</table>

* Alternative Path for students arriving at MHS without Algebra 1: 9th Grade: Alg Lab/Algebra 1; 10th Grade: Honors Geometry/Honors Algebra 2; 11th Grade: Honors Trig/Honors Math Analysis; 12th Grade: AP Calculus AB or Honors Calc

**Foreign languages can be doubled up at any point prior to AP language level. This ability to double-up would allow a student coming in to MHS without foreign language credit to catch up to AP level if desired

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**HIGH SCHOOL(S):** Monticello High School

**BUSINESS PARTNER(S):** Regional Hospitals and Clinics

**PATHWAY:** Pre-Med; Pre B.S.N.; Pre-Bio-Engineering; Other Pre-Health Careers requiring competitive 4-year college degrees

**COLLEGE(S):** UVA and PVCC

## Career Pathway Preparation
- PE 1 is taken online or in Summer School.
- CPR, First Aid, and Bio Safety Certifications; OSHA and HIPAA Mandates obtained by end of 9th Grade
- PE 2 is taken online or in Summer School. Begin college search
- 1st Sem: CPR, First Aid, and Bio Safety Certifications; OSHA and HIPAA Mandates obtained by end of 9th Grade
- PE 2 is taken online or in Summer School. Begin college search

## Secondary
- Identify Colleges/Universities; meet admissions deans in Fall meetings at MHS College Center; visit in Spring
- Begin Common App applications; arrange Fall visits to final college choices; reconnect with deans in Fall meetings

## Advanced Studies Diploma
- High School Required Courses
- AP Courses
- HSMA Courses
- Elective Courses
- Dual Enrollment Courses
- DE on PVCC campus
- Mandatory Assessments, Advising, and Additional Preparation