Monticello High School (MoHS) is one of three comprehensive public high schools in Albemarle County. Named for Thomas Jefferson's historical mountainside estate, “Monticello” means “little mountain” in Old Italian. Monticello High School is located two hours south of Washington, D.C. and one hour west of Richmond, VA. Monticello High has an enrollment of approximately 1150 students, servicing grades 9-12. Monticello operates on a modified block schedule. Classes are offered either yearlong, meeting every other day or for one semester, meeting every day.

Curriculum

Monticello High offers a comprehensive curriculum that stresses academics, but includes ample opportunity for students to study the fine arts as well as vocational courses at the local CATEC School. Our programs with University of Virginia and Piedmont Virginia Community College allow students to enroll in college courses for dual credit. In addition, extracurricular opportunities through groups like the Key Club, Robotics Team, and Habitat for Humanity Club, as well as all of the honors societies, give students a chance to get involved in the school and the community.

Center I, The Center for Creativity and Invention, is a learning center designed to allow students to explore the passions and interests that closely match their individual career goals. While continuing to attend their home school, working in this multi-faceted center enables students to embrace life-long learning in a student-driven environment. Grounded in a maker education learning environment, students access cutting-edge technology, virtual reality, and real world internships to imagine, design, collaborate, and complete projects both within the school community as well as with community partners.


*These courses are not offered every school year.

Honors, HMSCA, AP, and PVCC courses move at a faster pace and go beyond the curriculum of the advanced level courses. Honors, HMSCA, AP, and PVCC courses place major responsibility for student progress on the student. Students are expected to engage in self-instruction, independent work, readings, projects, and research. Prior to the 2019-2020 school year, AP was considered the most rigorous version of course work available. Beginning in the 2019-2020 school year, courses where AP and PVCC are both offered (US/VA History, US/VA Government, English 12, and Psychology), we consider AP and Dual Enrollment to be equal in rigor.
## 2020 Graduation Requirements

<table>
<thead>
<tr>
<th>Standard Diploma</th>
<th>Advanced Diploma</th>
<th>Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong> 4 credits</td>
<td><strong>English</strong> 4 credits</td>
<td>A = 90-100</td>
</tr>
<tr>
<td><strong>Mathematics</strong> 3 credits</td>
<td><strong>Mathematics</strong> 4 credits</td>
<td>B = 80-89</td>
</tr>
<tr>
<td><strong>Science</strong> 3 credits</td>
<td><strong>Science</strong> 4 credits</td>
<td>C = 70-79</td>
</tr>
<tr>
<td><strong>Health/PE</strong> 2 credits</td>
<td><strong>Health/PE</strong> 2 credits</td>
<td>D = 60-69</td>
</tr>
<tr>
<td><strong>World History</strong> 1 credit</td>
<td><strong>World History</strong> 2 credits</td>
<td>F = 0-59</td>
</tr>
<tr>
<td><strong>US/VA History</strong> 1 credit</td>
<td><strong>US/VA History</strong> 1 credit</td>
<td></td>
</tr>
<tr>
<td><strong>Government</strong> 1 credit</td>
<td><strong>Government</strong> 1 credit</td>
<td></td>
</tr>
<tr>
<td><strong>Fine Art/CTE</strong> 1 credit</td>
<td><strong>Fine Art/CTE</strong> 1 credit</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong> 6 credits</td>
<td><strong>Electives</strong> 2 credits</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong> 22 credits</td>
<td><strong>Total</strong> 26 credits</td>
<td></td>
</tr>
<tr>
<td><strong>Verified Credits</strong> 6 credits</td>
<td><strong>Verified Credits</strong> 9 credits</td>
<td><strong>(3 years of 1 or 2 years each of 2)</strong></td>
</tr>
</tbody>
</table>

### GPA

Albemarle County determines GPA by dividing the total grade points received by the total number of credits attempted in earning the points. The points are 4 for an A, 3 for a B, 2 for a C, 1 for a D, and 0 for an F. The highest unweighted GPA is 4.0. Students receiving a “pass” in a course designated as pass/fail are credited with completion of the course, but the grade from such a course is not included in the calculation of the GPA. Students receiving a “fail” in a pass/fail course receive a grade point of zero, which is included in the calculation of the GPA.

<table>
<thead>
<tr>
<th>GRADES</th>
<th>Honors, Dual, AP</th>
<th>Standard, Adv, A/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### College Entrance Exam Scores

<table>
<thead>
<tr>
<th>SAT Results [2019]</th>
<th>Critical Reading/Writing</th>
<th>Math</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monticello High</td>
<td>578</td>
<td>555</td>
</tr>
<tr>
<td>Virginia</td>
<td>560</td>
<td>541</td>
</tr>
<tr>
<td>National</td>
<td>538</td>
<td>533</td>
</tr>
</tbody>
</table>

### AP Statistics (2019)

- 715 AP tests were taken
- 65% of scores 3 or higher
- 34% of scores level 4 or 5

### National Merit Competition

- 2018: Commended: 6, Semifinalists: TBA
- 2019: Commended: 6, Semifinalists: TBA

### 2019 Statistics and Graduates’ Future Plans

- **Graduate Plans**
  - 49% Four-Year Colleges and Universities
  - 27% Two-Year Colleges and Vocational Schools
  - 24% Military, Workforce, and Other

### Student Demographics

- Male 48.50%
- Female 51.50%
- White 63.45%
- Black 11.20%
- Hispanic 15.28%
- Limited English Proficiency 10.20%
- Disadvantaged 33.8%
- Students with disabilities 14.20%
- Gifted 14.00%

### 2019 Monticello Graduates Were Accepted to the Following Institutions

- American University
- Arizona State University
- Boston College
- Boston University
- Bridgewater College
- Christopher Newport
- Clemson University
- College of William and Mary
- Columbia University
- Costal Carolina University
- Duke University
- East Carolina University
- Eastern Michigan
- Elizabeth City State University
- Elon University
- Emory & Henry
- Florida State University
- Fordham University
- George Mason University
- Georgetown University
- Georgia Tech
- Hampden-Sydney College
- Hampton University
- Howard University
- Indiana University
- James Madison University
- Liberty University
- Longwood University
- Lynchburg College
- Mary Baldwin College
- Marymount University
- Michigan State University
- Norfolk State University
- North Carolina A & T University
- North Carolina Central
- North Carolina State University
- Northeastern University
- Old Dominion University
- Ole Miss University
- Penn State University
- Radford University
- Randolph College
- Randolph Macon College
- Roanoke College
- Spelman College
- Southern Methodist University
- St. John’s University
- The Ohio State University
- The University of Iowa
- Tulane University
- University of Alabama
- University of California, Berkeley
- University of California, LA
- University of Central Florida
- University of Chicago
- University of Cincinnati
- University of Colorado, Boulder
- University of Connecticut
- University of Delaware
- University of Florida
- University of Georgia
- University of Kentucky
- University of Maryland
- University of Miami
- University of Michigan
- University of Mississippi
- UNC, Chapel Hill
- United States Naval Academy
- University of Richmond
- University of Rochester
- University of South Carolina
- University of South Florida
- University of Texas
- University of Tennessee
- University of Virginia
- Virginia Tech
- Virginia Commonwealth
- Virginia State University
- Virginia Union University
- Wake Forest University
2019-2020 Academy Profile

MISSION

The Monticello High School Health and Medical Sciences Academy’s mission is to empower students to utilize 21st century skills while exploring health science career opportunities. The program provides students with a foundation for post-secondary education and workforce readiness in certified health related professions. Students will explore core content with technology through integrated projects, case studies, and focused learning experiences.

CURRICULUM

The goals of HMSA include exciting students about health and medical science as a profession, increasing student exposure to a broad range of career opportunities in health and medical sciences, exploring Anatomy and Physiology in order to prepare students for the rigors of collegiate A&P course, and providing opportunities for preparation and practice via clinical rotations and internships.

Students enrolled in the Academy will engage in lessons and activities that will provide opportunities for students to demonstrate workplace readiness skills. During their first year, students are enrolled in an integrated curriculum covering topics in Biology, Health and Medical Sciences, and Health. This integrated curriculum was designed by teachers and feedback was provided by local Health Professionals, Professors, and Research Scientists in order to ensure that students would gain the skills necessary for current practice. Second year students enroll in Anatomy and Physiology and Chemistry. These courses are taught separately with a couple of integrated units. During a student’s junior and senior year, students no longer come together as a cohort. Students are encouraged to enroll in rigorous coursework designed to prepare them for post-high school education. In addition to their coursework students must enroll in an internship or research project prior to graduation.

FUNDING: Funding to support the start-up of the HMSA, ongoing lab experiences, and equipment has been provided by Martha Jefferson Hospital, the University of Virginia, the Batelle Foundation, the Freas Foundation, and the Virginia Department of Education.

INTERNSHIPS: Students have engaged in internships at The University of Virginia and Martha Jefferson Hospitals in various clinics, including surgery, private clinics, several veterinary clinics and hospitals, and research and clinical research labs located in Charlottesville. Students shadow and participate in age/skill appropriate tasks. Through these experiences, students gain exposure and skills that will provide them with knowledge to better understand careers available that they might find of interest.

RESEARCH: Several students have participated in research. They have been able to work alongside professors and graduate students to investigate methods, use various types of equipment and gain skills that are not available in a high school setting. Example include: PCR, PCR Purification, Restriction Enzyme Digestion, Plasmid Ligation, Plasmid Extraction and Purification, Gel Electrophoresis, Gel Extraction, Electroporation, Heat Shock, Serial Dilution, Preparation of antibiotic-enriched plates, Colony antibiotic sensitivity screening, and Primer Design.

Students apply to the Health and Medical Sciences Academy. All applications are reviewed by a selection committee. The application process is defined on our website: http://bit.ly/HMSAsite