2017-2018 School Profile

Our School and Community

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.

The Health and Medical Sciences Academy (HMSA) is designed to prepare students for college and/or career pathways in the Health Sciences. Academy students will explore an integrated curriculum through the lens of Health Sciences and Research. During their junior and senior year, students will have additional opportunities to support their academic aspirations in Health Science Careers that may include but are not limited to: Case Studies, Internships, Clinical Rotations, Site Visits/Tours, and College Visits.


*These courses were not offered during the 2017-2018 school year.
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.

**GPA**

<table>
<thead>
<tr>
<th>Standard Diploma</th>
<th>Advanced Diploma</th>
<th>Grading Scale</th>
<th>Grade Distribution 2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>English</td>
<td>A = 90-100</td>
<td>Grade 12 : 255</td>
</tr>
<tr>
<td>Mathematics</td>
<td>Mathematics</td>
<td>B = 80-89</td>
<td>Grade 11 : 288</td>
</tr>
<tr>
<td>Science</td>
<td>Science</td>
<td>C = 70-79</td>
<td>Grade 10 : 293</td>
</tr>
<tr>
<td>Health/PE</td>
<td>Health/PE</td>
<td>D = 60-69</td>
<td>Grade 09 : 291</td>
</tr>
<tr>
<td>World History</td>
<td>World History</td>
<td>F = 0-59</td>
<td></td>
</tr>
<tr>
<td>US/VA History</td>
<td>US/VA History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>Government</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Art/CTE</td>
<td>Fine Art/CTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22 credits</td>
<td>26 credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verified Credits</td>
<td>Verified Credits</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 credits</td>
<td>9 credits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**(3 years of 1 or 2 years each of 2)**

**College Entrance Exam Scores**

<table>
<thead>
<tr>
<th>SAT Results (2017)</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 (2017)**

- 591 AP tests were taken
- 53% of scores 3 or higher
- 29% of scores level 4 or 5

**National Merit Competition**

- 2016
  - Commended : 5
  - Semifinalists : 1
- 2017
  - Commended : 1
  - Semifinalists : 1

**2017 Statistics and Graduates' Future Plans**

**Graduate Plans**
- 51% Four-Year Colleges and Universities
- 25% Two-Year Colleges and Vocational Schools
- 24% Military, Workforce, and Other

**Student Demographics**
- Male 48.8%
- Female 51.2%
- White 63.8%
- Black 12.65%
- Hispanic 13.9%
- Limited English Proficiency 4.45%
- Disadvantaged 34.2%
- Students with disabilities 13.8%
- Gifted 15.68%

**2017 Monticello Graduates Were Accepted to the Following Institutions**

- Adelphi University
- Allegheny College
- Beloit College
- Bowdoin College
- Boston College
- Boston University
- Brandeis University
- Bridgewater College
- Central Connecticut St University
- Central Michigan University
- Central Washington University
- Christopher Newport
- Clemson University
- College of William and Mary
- Cornell University
- Costal Carolina University
- College of Charleston
- Culinary Institute of Virginia
- Denison University
- Dickinson University
- Drexel University
- Eastern Michigan
- Eastern Carolina University
- Emory & Henry
- Florida State University
- Fordham University
- George Mason University
- Georgetown University
- Georgia Tech
- Glenville State
- Hampden-Sydney College
- Hampton University
- Harvard University
- Hunter College
- Ithaca College
- James Madison University
- Johnson and Wales University
- Liberty University
- Longwood University
- Lynchburg College
- Marshall University
- Mary Baldwin College
- Marymount University
- Miami University
- Michigan State University
- Missouri State University
- Norfolk State University
- North Carolina A & T University
- North Carolina State University
- Old Dominion University
- Ole Miss University
- Penn State University
- Radford University
- Randolph College
- Randolph Macon College
- Rensselaer Polytechnic Institute
- Roanoke College
- The Ohio State University
- University of Alabama
- University of California, Berkeley
- University of California, LA
- University of California, SD
- University of Colorado, Boulder
- Virginia Tech
- Virginia Commonwealth
- Virginia State University
- Virginia Union University
- Wake Forest University
- West Virginia University

**Last updated 10/3/17**
2017-2018 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: bit.ly/HMSA-site