



MONTICELLO HIGH SCHOOL

1400 Independence Way, Charlottesville, VA 22902

School Counseling Office Phone: (434) 244-3110

FAX: (434) 244-3109

Main Office Phone: (434) 244-3100

FAX: (434) 244-3104

PRINCIPAL:

Mr. Ricky Eric Vrhovac

ASSOCIATE PRINCIPAL:

Mr. Reed Gillespie

ASSISTANT PRINCIPALS:

Mr. Henry Atkins

Ms. Ashby Johnson

SCHOOL COUNSELING DIRECTOR:

Mr. Irvin Johnson (AVID)

SCHOOL COUNSELORS:

Ms. Najwa Tatty (A-C)

Mr. Paul Jones (D-Hod)

Mrs. Laura Gaskins (Hoe-Mel)

Mr. Adam Southall (Mem-Sea)

Ms. Nikki Eubanks (Seb-Z)

Ms. Shamika Terrell (Career Specialist)

SCHOOL COUNSELING Associate:

Ms. Connie Jenkins

Database Administrator/Registrar:

Mr. Corey Hunt

CEEB CODE: 470-439

www.k12albemarle.org/monticello

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.



Advancement Via Individual Determination is a college readiness system for elementary through higher education that is designed to increase school wide learning and performance. The AVID College Readiness System (ACRS) accelerates student learning, uses research based methods of effective instruction, provides meaningful and motivational professional learning, and acts as a catalyst for systemic reform and change." - AVID.org



The Charlottesville Albemarle Technical Education Center is a regional technical education center serving students in central Virginia. They are jointly operated by Albemarle County Public Schools and Charlottesville City Public Schools. High school students can study Pharmacy Technology, Dental Assistance, Music Industry Technology, Auto Body Repair, Auto Technology, Barbering, Cosmetology, Culinary Arts, Building Trades, Masonry, EMT/Firefighting, and Nurse Assistant. CATEC classes are taught during the regular school day.

HONORS CLASSES: English 9,10,11; World History II, World Geography, Geometry, Algebra II, Trigonometry/Math Analysis, Math Analysis/Pre-Calculus, Earth Science, Biology, Chemistry, Animal Studies, Anatomy/Physiology, French IV, Spanish IV, German IV, Latin III, and Latin IV.



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.



ADVANCED PLACEMENT CLASSES: English Language, English Literature, US History, US Government, European History, World History, Human Geography, French, Spanish, Latin, German, Psychology, Statistics, Calculus AB/BC, Biology, Chemistry, Physics 1, C Environmental Science, and Microeconomics.



DUAL ENROLLMENT CLASSES: English 111/112, US History 121/122, US Government 211/212, Psychology 200/230, Pre-Calc/Applied Calc 163/271, Principles of Management 200, Culinary Arts*, and Architectural Drafting 121*.

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

Honors, HMSA, AP, and PVCC courses move at a faster pace and go beyond the curriculum of the advanced level courses. Honors, HMSA, 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. Courses where AP and PVCC are both offered (US/VA History, US/VA Government, English 12, and Psychology), we consider AP to be the highest options offered.

2018 GRADUATION REQUIREMENTS

Standard Diploma	
English	4 credits
Mathematics	3 credits
Science	3 credits
Health/PE	2 credits
World History	1 credit
US/VA History	1 credit
Government	1 credit
Fine Art/CTE	1 credit
Electives	6 credits
Total	22 credits
Verified Credits	6 credits

Advanced Diploma	
English	4 credits
Mathematics	4 credits
Science	4 credits
Health/PE	2 credits
World History	2 credits
US/VA History	1 credit
Government	1 credit
Fine Art/CTE	1 credit
World Language**	3-4 credits
Electives	2 credits
Total	26 credits
Verified Credits	9 credits

Grading Scale

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = 0-59

Grade Distribution 2017-2018

Grade 12 : 255
Grade 11 : 288
Grade 10 : 293
Grade 09 : 291

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

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.

GRADES	Honors, Dual, AP	Standard, Adv, A/A
A	5	4
B	4	3
C	3	2
D	2	1
F	0	0

COLLEGE ENTRANCE EXAM SCORES

SAT Results (2017)	Critical Reading/Writing	Math
Monticello High	578	555
Virginia	560	541
National	538	533

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	2017
Commended : 5	Commended : 1
Semifinalists : 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	College of Charleston	Hampton University	North Carolina A & T University	University of Connecticut
Allegheny College	Culinary Institute of Virginia	Harvard University	North Carolina State University	University of Delaware
Beloit College	Denison University	Hunter College	Old Dominion University	University of Georgia
Bowdoin College	Dickenson University	Ithaca College	Ole Miss University	University of Mary Washington
Boston College	Drexel University	James Madison University	Penn State University	University of Mississippi
Boston University	East Carolina University	Johnson and Wales University	Radford University	UNC, Chapel Hill
Brandeis University	Eastern Mennonite	Liberty University	Randolph College	University of Richmond
Bridgewater College	Edinburgh University	Longwood University	Randolph Macon College	University of South Carolina
Central Connecticut St University	Emory & Henry	Lynchburg College	Rensselaer Polytechnic Institute	University of Tennessee
Central Michigan University	Florida State University	Marshall University	Roanoke College	University of Virginia
Central Washington University	Fordham University	Mary Baldwin College	The Ohio State University	Virginia Tech
Christopher Newport	George Mason University	Marymount University	University of Alabama	Virginia Commonwealth
Clemson University	Georgetown University	Miami University	University of California, Berkeley	Virginia State University
College of William and Mary	Georgia Tech	Michigan State University	University of California, LA	Virginia Union University
Cornell University	Glenville State	Missouri State University	University of California: SD	Wake Forest University
Costal Carolina University	Hampden-Sydney College	Norfolk State University	University of Colorado, Boulder	West Virginia University



Health and Medical Sciences Academy

1400 Independence Way, Charlottesville, VA 22902

HMSA Phone: (434)244-3100 ext. 61127

Fax: (434)244-3104

Email: kdudley@k12albemarle.org

PRINCIPAL:

Mr. Rick Vrhovac

DIRECTOR:

Katina Dudley

STAFF:

Jeremy Dove

Kelly Lawrence

Geoff Parks

Lauren Williamson

Karen Ye

ADVISORY BOARD:

Dr. Randy Canterbury

Tim Garson

Phillip Roberts

Tom Thorpe

Lee Catlin

Ann Craddock

Dr. Fred Diehl

Dr. John Donnelly

Dr. Nikki Hastings

Dr. Lianne Landers

Dr. Richard Lindsay

Jackie Martin

Dr. Tom Wolanski

Dr. JC Wolfe

Sue Woodson

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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.

ADVISORY BOARD: A list of advisory board members can be found on the webpage. These individuals continue to provide feedback regarding curriculum and experiences for students.

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