

Medical and Health Specialties Program @ Maury High School

INFORMATIONAL VIRTUAL PROGRAM NOVEMBER 2020





Ever heard of CSI?

Forensic anthropologists work at the REAL body farm....



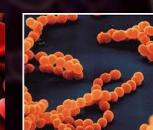




Microbiologists deal with

COVID-19 ...Blood Cells...Cancer Cells...Strep Cells...







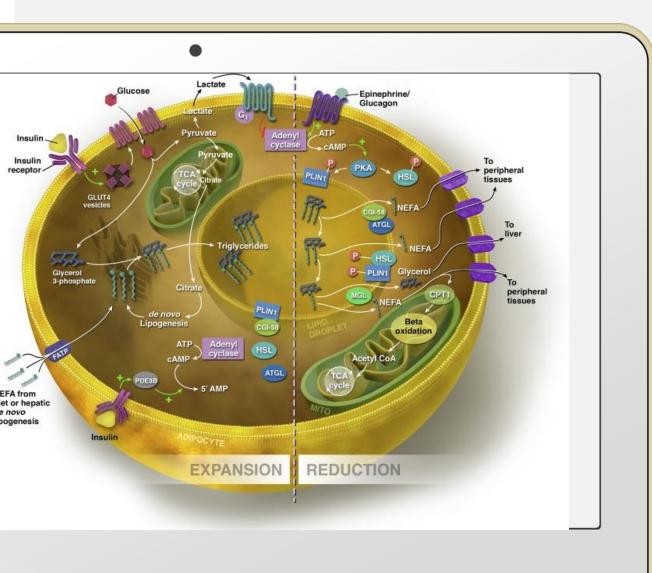


Athletic trainers, first responders, orthopedic surgeons deal with sports injuries...



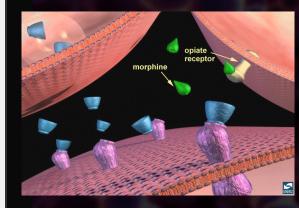


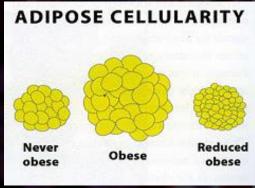






Researchers seek to understand the body through chemistry...





So, how can you become A forensic anthropologist? Or An athletic trainer? Or A sports medicine physician? Or Participate in research to find a cure for cancer?





The MHSP was the first magnet program in Norfolk Public Schools

Created in 1986, it is a special partnership between the Eastern Virginia Medical School and NPS. This collaboration has enriched student education for the past 34 years. Additionally, many program graduates now work in the medical community in the Hampton Roads area.

Pharmaceutical

PROGRAM CLASSES

Unique, specially designed classes taught by creative & highly engaged teachers...

Freshman Year	Sophomore Year	Junior Year	Senior Year
Biology with Medical Applications Accelerated Health (Introduction to Anatomy) & PE 9	Chemistry with Medical ApplicationsThis is a double blocked class which means it meets every day for 90 minutes	Anatomy & Physiology Science Elective: AP Biology AP Chemistry AP Environmental Science AP Physics AP Psychology Sports Medicine 1	Select from one of the following four classes: • Bioethics • Emergency Medical Responders • Forensic Science • Sports Medicine









BIOLOGY WITH MEDICAL APPLICATIONS...

DONNA MITCHELL

- dissections
- suturing
- guest speakers
- anatomy lab at EVMS...& lots more







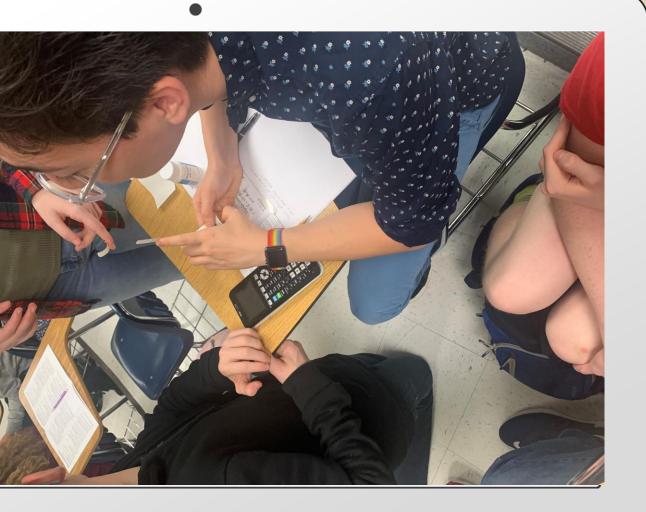


page 1

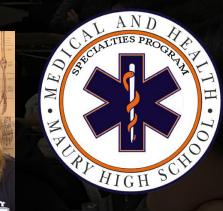
ACCELERATED HEALTH & PE9 ...

TERRY ZABLOCKI

- Introduction to Anatomy
- Study of Body Systems
- Foundation for Anatomy at EVMS
- The grade in this portion of the class is closely monitored







CHEMISTRY WITH MEDICAL APPLICATIONS...

MARYBETH DIXON & JESSICA TOMAN

- 90 minute class double blocked (meets every day)
- In-depth study of basic chemistry with a focus on applications to the human body
- Added organic chemistry component







ANATOMY-PHYSIOLOGY...

- JILLIAN PEEPLES & TERRY ZABLOCKI
- 90 minute class double blocked & held at EVMS
- In-depth study of human anatomy







SPORTS MEDICINE 1&2...

MATTHEW TALLEY

- Hands-on skills training to assess and treat sports related injuries
- Reinforcement of anatomy knowledge







FORENSIC SCIENCE...

DEBBIE ALLEN

- Investigative science integrating anatomy, biomed and chemistry
- Labs include fingerprint analysis, source of germs, blood spatter & study of decomposition in a simulated body farm.



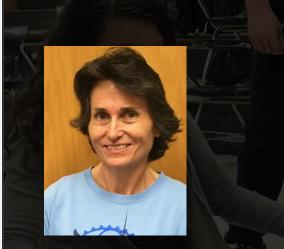




BIOETHICS...

- **BRYAN BENNETT**
- Socratic style class
- Ethical decision-making models explored through real-life case studies
- Monthly participation in Bioethics committee & annual Bioethics conference @ SNGH







EMERGENCY MEDICAL RESPONDERS...

TERRY ZABLOCKI

- Intensive first responders training following the Commonwealth of Virginia EMS Emergency Medical responders curriculum
- Students test for national Emergency Medical Responder First Level certification exam

In addition to the core classes, juniors & seniors must opt for a second science class during the 11th & 12th grade years...

- AP BIOLOGY
- AP CHEMISTRY
- AP ENVIRONMENTAL SCIENCE
- PHYSICS
- AP PHYSICS
- AP PSYCHOLOGY
- SPORTS MEDICINE

Science Elective options

Juniors & Seniors must take two sciences.





And lots of enrichment with interesting speakers & opportunities



page 18







Virtual anatomy and layers of dissection

Pathology Program

Career exploration in an array of medical related fields.

Ultra Sound Clinic

Learning basics under the watchful eyes of medical students.



And field trips including: Job Shadow Day at SNGH; a visit to VCU to begin the college consideration process; visit to the Lifenet Facility to learn about organ donation; a visit to the Norfolk Emergency Training Center and others.



The goal of this requirement is not only to instill the value of giving back to society. It is designed to help students develop solid time management skills.

"To those who much is given, much is expected..."

COMMUNITY SERVICE

YEARLY REQUIREMENT 30 hours each year 120 hours by graduation



- 45 seniors graduated last year.
- 100% were accepted into a college or university.
- 40 of the 45 graduates planned a major in a medically related track of studies or hard sciences.
- The average GPA of the class of 2020 was 4.25
- The MHSP Class of 2020 was offered more than \$9,262,000 in scholarships and grants.
- This class accrued more than 10,400 hours of documented community service

What's so special about the kids in the program?

This is a dynamic cohort of students....

- Someone who is willing to work hard
 - Someone who is good with time management
- Someone who is willing to accept challenges and show initiative

To be <u>eligible*</u> to apply

*This does <u>not</u> mean the student will automatically be accepted

- Have a 3.0 GPA
- Earned algebra 1 and one other high school credit
- Submit 4 letters of recommendation
- Have excellent attendance and discipline records
- Some students will be invited to test and submit a writing sample.
- 50 students will become the Class of 2025 and enter Maury fall in September, 2021

What kind of student would be successful in we was being this program?

For starters, you must be curious and like hard work...





- One common application is used for all specialty programs and will be available online November 5th 2020
- <u>Phase 1</u>: All applications will be reviewed using a common rubric. The IB, LCSE & MHSP specialty program leaders will meet to review rubrics and determine which students will be invited to test...*not all students will be invited to test.* Applications are due to middle school counselors January 22nd 2021
- <u>Phase 2:</u> It is currently planned for students to test March 19th 2021 at Norview High School. This is subject to change due to COVID conditions.
- <u>Phase 3:</u> Test scores and rubric scores will be combined. Based on student indication of program priority, program leaders will review and determine notification status

Notification letters will be mailed April 18th 2021

Students will receive only one letter, either an acceptance to their highest ranked program or a denial.



APPLICATION PROCESS

Norfolk Public Schools has a common application...available online November 5th 2020



- General application information
- Grades from <u>high school credit bearing</u> classes and middle school English
- Transcript with 7th and 8th grade classes, including mid-year grades from middle school counselor
- Attendance record
- Discipline record
- Testing results: PSAT; SOL testing
- Applicant short-answer questions, preferably handwritten.
- Teacher recommendation forms from: Math, Science, English and one additional academic teacher
- Counselor comment page

APPLICATION PROCESS

APPLICATION COMPONENTS



Students spend four years in a very exciting and unique program...



34 Year Partnership

With the Eastern Virginia Medical School....

> thickening of the myocardium, especially in the left ventricle. Patter fourteen, and asymptomatic. He had an innocent heart murmur at th but can now possibly be linked as an underlying cause of HCM. Adv competitive sports and administered beta blockers in the form of eyheart rate and decrease blood pressure. The sports screening may l patient's life as HCM can first present as sudden deat

Questions about the program may be sent to the program leader, Anne Christie

Achristie@nps.k12.va.us

Note: due to COVID restrictions, shadowing opportunities will not take place this year.



Medical & Health Specialties Program @ Maury High School

Virtual Informational Program

Patient disguosed with Hypertrophic Cardisonropedity after subtery mandatory cardiosyscelar sports accreating As subways, NCM is character thickening of the myocardium, especially in the left ventricle. Patien fourteen, and asymptomatic. He had an innocent heart murmur at th but can now possibly be linked as an underlying cause of HCM. Advi competitive sports and administered beta blockers in the form of eye heart rate and decrease blood pressure. The sports screening may h patient's life as HCM can first present as sudden death