

How To Apply

Application Deadline:
Monday, November 7, 2011

Please visit the following websites for application information:

Engineering Magnet

<http://www.montgomeryschoolsmd.org/curriculum/specialprograms/high/engineering.aspx>

Biomedical Magnet

<http://www.montgomeryschoolsmd.org/curriculum/specialprograms/high/biomedical.aspx>



Contact Information

For **Engineering Magnet Program** related questions contact:

Andrea Robertson, Engineering Program Director
301-929-2050
Andrea_M_Robertson@mcpsmd.org

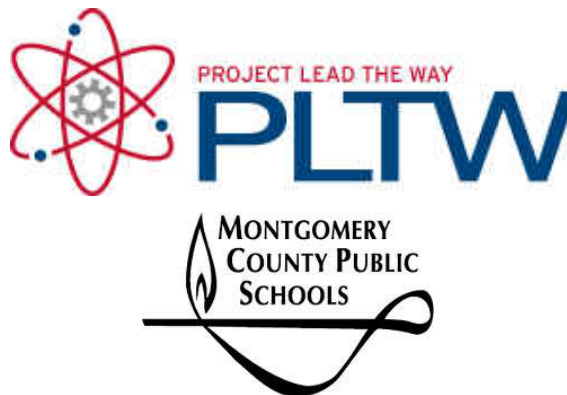
For **Biomedical Magnet Program** related questions contact:

Heather Carias, Biomedical Program Director
301-929-2050
Heather_B_Carias@mcpsmd.org

For **Magnet Program application** related questions contact:

Nicole Sosik, Assistant Principal
301-929-2050
Nicole_Sosik@mcpsmd.org

Heather Carias, Academy Coordinator
301-929-2050
Heather_B_Carias@mcpsmd.org

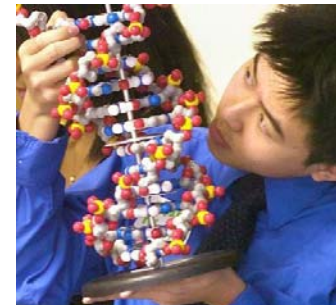


Future Opportunity
Beginning 2012-2013



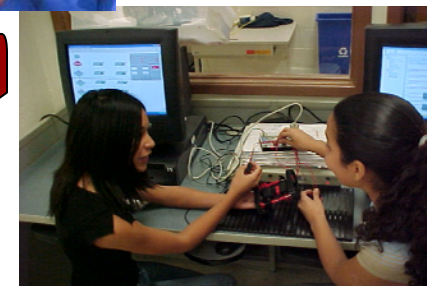
Wheaton High School
Biomedical Magnet Program
Engineering Magnet Program
Application Only

Informational Open House
Monday, October 3, 2011
7:00pm– 8:00pm
Wheaton High School



Innovation

Design



The **Engineering Magnet Program** provides a cohort of highly motivated students with a rigorous math, science, and engineering sequence of courses. Students will experience hands-on and project based activities that promote the development of critical thinking skills. Students will become familiar with and explore multiple fields of engineering including aerospace, mechanical, civil, and electrical. Through the use of the engineering design process, students will create their own inventions or innovations to solve real world problems.

Students will have the opportunity to...

- Use 3D design software used by companies such as Lockheed Martin and Intel.
- Earn college credit and be taught by college professors.
- Compete in competitions at the local, state, and national level.
- Participate in a variety of clubs including , robotics, Civil Air Patrol, and A.C.E Mentors.

Engineering Magnet Pathway of Courses

Grade 9	Grade 10
Principles of Engineering and Introduction of Engineering Design	Digital Electronics
Honors Geometry or Honors Algebra 2 w/ Analysis	Honors Algebra 2 w/ Analysis Or Honors Pre-Calc w/ Analysis
Honors Physics	Honors Chemistry and Honors Biology
English 9/Honors	English 10/Honors
US History/Honors/AP	NSL/Honors/AP
Foreign Language	Foreign Language
Fine Arts or P.E. (Options for those w/ IED Middle School credit)	Health/P.E.

Grade 11	Grade 12
Aerospace Engineering Or Civil Engineering	Engineering Design and Development And Montgomery College Courses ES 102/ES 240 Or Internship
Honors Pre-Calc w/ Analysis Or AP Calculus BC	AP Calculus AB Or Multivariable Calculus
AP Chemistry (single period)	AP Physics C
Honors English 11/AP	Honors English 12/AP
Modern World History/ Honors/AP	Fine Arts
Foreign Language	Elective Course
AP Computer Science	

The **Biomedical Magnet Program** provides a cohort of highly motivated students with a rigorous math, science, and medicine sequence of courses. Through a hands-on and collaborative approach, students will explore prevention, diagnosis, and treatment of disease in order to design innovative solutions for 21st century health challenges. Through the use of data acquisition software, students will monitor body functions such as muscle movement, reflex, voluntary action, and respiration.

Students will have the opportunity to...

- Participate in an internship at the National Institutes of Health, The George Washington University or another local science facility.
- Be mentored by medical school students and other medical professionals specific to a student's area of interest.
- Earn college credit and be taught by college professors.
- Compete in scientific competitions at the local, state, and national level.

Biomedical Magnet Pathway of Courses

Grade 9	Grade 10
Principles of the Biomedical Sciences	Human Body Systems
Honors Geometry or Honors Algebra 2 w/ Analysis	Honors Algebra 2 w/ Analysis Or Honors Pre-Calc w/ Analysis
Honors Biology	AP Biology (double period)
English 9/Honors	English 10/Honors
US History/Honors/AP	NSL/Honors/AP
Foreign Language	Foreign Language
Fine Arts or P.E.	

Grade 11	Grade 12
Medical Interventions	Biomedical Innovations And Montgomery College Courses BI 122/BI230 Or Internship
Honors Pre-Calc w/ Analysis Or AP Calculus BC	AP Calculus AB Or AP Statistics
Honors Physics And Honors Chemistry	AP Chemistry (single period)
Honors English 11/AP	Honors English 12/AP
Modern World History/ Honors/AP	Fine Arts or P.E.
Foreign Language	Technology Course