

Programa de Matemáticas, Ciencias e Informática

MONTGOMERY BLAIR HIGH SCHOOL



Cronología

- ▶ 4 de noviembre: entregar solicitud/ darles las hojas de recomendación a los maestros
- ▶ 3 de diciembre: Examen
 - ▶ 4 de diciembre: examen para estudiantes con discapacidades y necesidades en inglés (ESOL)
 - ▶ 7 de diciembre: segunda oportunidad para examen
 - ▶ Fecha adicional en caso de mal tiempo– una semana después de las fechas anunciadas
- ▶ Primera semana de febrero: Cartas de aceptación

Criterios de consideración

- Alumno actual de octavo grado
- Completar Algebra 1 (o curso más avanzado) al final de este año
- Residir dentro del Condado de Montgomery en las siguientes áreas:
 - ▶ DCC
 - ▶ NEC
 - ▶ BCC
 - ▶ Churchill
 - ▶ Walter Johnson
 - ▶ Richard Montgomery
 - ▶ Rockville
 - ▶ Sherwood
 - ▶ Whitman
 - ▶ Wootton

Programa especial de Blair

- ▶ Instrucción interdisciplinaria
- ▶ Cursos más avanzados que Honores/ AP
- ▶ Altas expectativas para los estudiantes
- ▶ Profundidad (en lugar de extensión)
- ▶ Investigación independiente

Cursos

- ▶ Matemáticas
- ▶ Ciencias
- ▶ Informática
- ▶ Investigación e ingeniería
- ▶ Cursos fuera del programa
 - ▶ Estudios sociales
 - ▶ Inglés
 - ▶ Educación física
 - ▶ Cursos electivos

Cursos requisitos en matemáticas

Magnet
Geometry A/B

Precalculus
A/B/C

Analysis 1 A/B

Electives

Precalculus
A/B/C

Analysis 1 A/B

Analysis 2 A/B
and/or Electives

Electives

Functions A/B

Analysis 1 A/B

Analysis 2 A/B
and/or Electives

Electives

Cursos electivos en matemáticas

Analysis 2

Linear Algebra

Advanced
Geometry

Applied
Statistics

Modeling and
Simulation

Discrete
Mathematics

Complex
Analysis

Logic

Senior Seminar
in Statistical
Research

Cursos de ciencias: Requisitos y electivos

Advanced Science 1: Physics

Advanced Science 2: Chemistry

Advanced Science 3: Earth Space Systems

Advanced Science 4: Biology

Plate Tectonics / Oceanography

Astronomy

Cellular Physiology

Optics

Thermodynamics

Quantum Physics

Analytical Chemistry

Introduction to Physical Chemistry

Genetics

Marine Biology

Immunology

Biological Chemistry

Organic Chemistry

Entomology

Cursos de Informática: Requisitos y electivos

Fundamentals of
Computer Science A/B

Algorithms and Data
Structures A/B

Fundamentals of
Computer Science A

Algorithms and Data
Structures A/B

Analysis of Algorithms

Analysis of
Algorithms

Computer
Graphics

Software Design

Modeling and
Simulation

AI / LISP

3-D Computer
Graphics

Computational
Methods

Cursos de investigación e ingeniería

Research and
Experimentation 1 A/B

Principles of
Engineering A (Grade
10)

Principles of
Engineering B (Grade
11)

Senior
Research
Project

Robotics

Material
Science

Origins of
Science

Horario de clases

- ▶ 8 Clases (una clase adicional) – salir a las 3:20
- ▶ 5 clases cada día (bloque)
- ▶ Clases coordinadas en matemáticas, ciencias, ingeniería en grado 9
- ▶ Actividades extracurriculares (clubes)
- ▶ Buses a las 3:20 (lunes a viernes) y a las 4:45 (martes, miércoles y jueves)

Apoyo para los estudiantes

- ▶ Compañeros de estudio
- ▶ Horas de estudio (clase aparte)
- ▶ Tutoría durante la hora del almuerzo
- ▶ Consejería y Centro de carreras
- ▶ Tutoría después de las horas de clase
- ▶ Ayuda con admisiones universitarias

Actividades extracurriculares

AALeAD
ABC Club
Africa Club
Art & Science Club
Bible Fellowship Club
Biology Club
Bio-Science Club
Blair Bowling
Blair Crew
Blair Sports Academy
Blair Network
Communications
Board Games Club
Ceramics Club
Chemistry Club
Chess Club
Computer Club
Cyber Security Club
Economics Club
Envirothon
Film Club
Flag Squad
Forensics/Public Speaking
Gay/Straight Alliance
Global Culture Club

Green Club
Hip-Hop Club
Hispanic Club
I Care
Indian Club
International Cancer Alliance
International Club
InToneNation
Intramural Field Hockey
Intramural Floor Hockey
It's Academic
Japanese Club
Jewish Culture Club
Key Club
Korean Club
Learn a Language Club
Lego Mindsorm Club
Latin Club
Linguistics Club
Marching Band
Martial Arts Club
Math Team
Minority Scholars Program
Mock Trial
Model United Nations

Montgomery Blair Players
Muggle Quidditch
Muslim Student Association
National Arts Honor Society
National French Honor Society
National Honor Society
National Science Honor Society
National Spanish Honor Society
No Labels Diversity Workshop
Ocean Science Bowl
One Act Plays
Peer Tutors
Philosophy Club
Photography Club
Physics Team
Pit Orchestra
Red Cross Club
Robotics Team
Rubik's Cube Club
Science Bowl
Shakespeare Club
Sign Language Club
Silver Chips

Silver Quill
Smart Snacks Club
Stage Crew
STEM Club
Step Club
Student Government Association
Students for Global Responsibility
Super Leaders
Theater Productions
Thespians Club
Tri-M
Ultimate Frisbee Club
Vietnamese Club
WEB Dubois Honor Society
Weight Training Club
Women's Advocacy
Yearbook
Yoga Club
Youth Ambassadors
Youth and Government
Youth for Music

Solicitud

- ▶ Entregar solicitud en 4 de noviembre
- ▶ Paquete de solicitud
 - ▶ Sección 1: información biográfica
 - ▶ Sección 2: actividades de los estudiantes
 - ▶ Sección 3: firmas
 - ▶ Sección 4: ensayo contestando preguntas de la solicitud
- ▶ Recomendaciones de los maestros

Examen

- ▶ 3 de diciembre, 8:00-11:00
 - ▶ Matemáticas
 - ▶ Comprensión de lectura
 - ▶ Expresión escrita

Los días adicionales para el examen

- 4 de diciembre: examen para estudiantes con discapacidades y necesidades en inglés (ESOL) – en Richard Montgomery High School
- 7 de diciembre: segunda oportunidad para examen – en Montgomery Blair High School

Proceso de selección

- ▶ Solicitud, examen, hojas de recomendación
- ▶ Comité de selección
- ▶ Las cartas de decisión
- ▶ Apelaciones

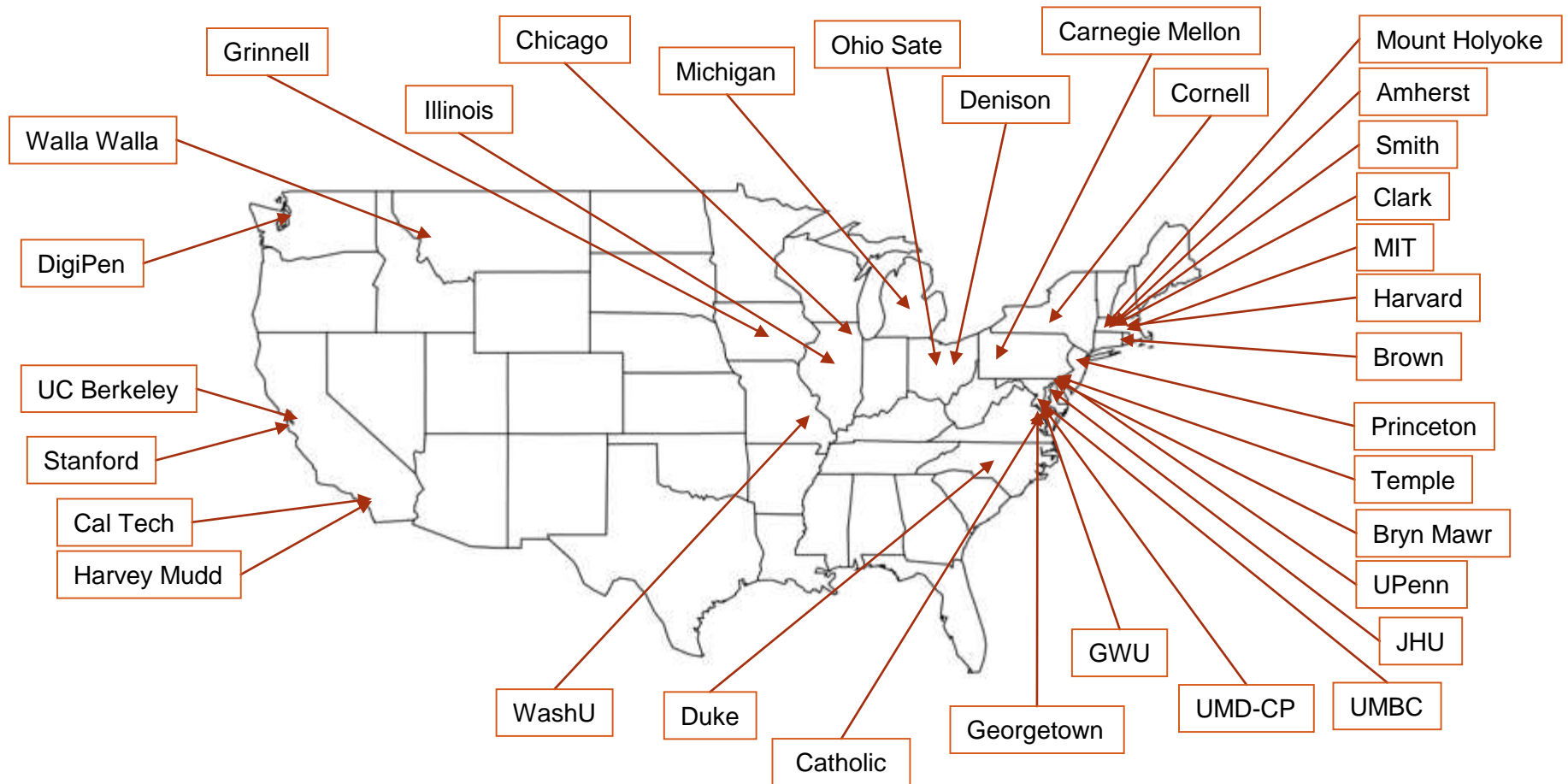
Los estudiantes

- ▶ 100 estudiantes por grado
- ▶ Estudiantes de más de 30 escuelas intermedias
- ▶ Estudiantes de más de 10 países de origen

Logros recientes

- ▶ Excellence in Gifted & Talented Education Award, Maryland Department of Education
- ▶ Thirty Eight National Merit Scholarship Semifinalists in class of 2017
- ▶ 2012, 2014 & 2016 Davidson Fellowship Winners
- ▶ 2010, 2011, 2012 & 2014 US Presidential Scholar Winners
- ▶ Nine 2016 Intel Semi-finalists, Two finalists
- ▶ Ten 2015 Siemens Competition Semi-finalists
- ▶ 2011, 2013, 2014 & 2015 Gold or Silver Medalists, International Physics Olympiad
- ▶ 2012, 2013, 2015 & 2016 Top Ten finish at American Regions Mathematics League
- ▶ Alumni selected as 2009 and 2014 MacArthur Fellows
- ▶ Students competing at the national & international level in swimming, fencing, skating, wushu, skiing, chess, ...

Universidades que nuestros graduados están asistiendo - Clase de 2016



Aceptaciones universitarias- Clase de 2016

- ▶ Amherst College
- ▶ Becker College
- ▶ Boston University
- ▶ Brandeis University
- ▶ Brown University
- ▶ Bryn Mawr College
- ▶ UC Berkeley
- ▶ UC Davis
- ▶ UCLA
- ▶ UC San Diego
- ▶ Cal Tech
- ▶ Carnegie Mellon
- ▶ Case Western Reserve
- ▶ Catholic University
- ▶ Champlain College
- ▶ University of Chicago
- ▶ Clark University
- ▶ University of Colorado
- ▶ Columbia University
- ▶ University of Connecticut
- ▶ Cornell University
- ▶ Dartmouth University
- ▶ Davidson College
- ▶ University of Delaware
- ▶ Denison College
- ▶ Dickenson College
- ▶ DigiPen
- ▶ Drexel University
- ▶ Duke University
- ▶ Emory University
- ▶ Embry-Riddle University
- ▶ Florida Inst. Of Technology
- ▶ Fordham University
- ▶ Georgetown University
- ▶ Georgia Tech
- ▶ Goucher College
- ▶ Grinnell College
- ▶ Hamilton College
- ▶ Harvard University
- ▶ Harvey Mudd College
- ▶ Haverford College
- ▶ Howard University
- ▶ University of Illinois
- ▶ Johns Hopkins University
- ▶ Julliard School
- ▶ Kenyon College
- ▶ Kettering University
- ▶ Macalester College
- ▶ McDaniel College
- ▶ UMBC
- ▶ UMD College Park
- ▶ MIT
- ▶ University of Michigan
- ▶ University of Minnesota
- ▶ University of Mississippi
- ▶ Mount Holyoke College
- ▶ New England Conservatory of Music
- ▶ New York University
- ▶ UNC Chapel Hill
- ▶ North Carolina State Univeristy
- ▶ Northeastern University
- ▶ Northwestern University
- ▶ Oberlin College
- ▶ Ohio State University
- ▶ University of Pennsylvania
- ▶ Penn State
- ▶ University of Pittsburgh
- ▶ Princeton University
- ▶ Purdue University
- ▶ Rensselaer Polytechnic
- ▶ Rice University
- ▶ University of Rochester
- ▶ Rochester Institute of Technology
- ▶ Rose-Hullman Institute of Technology
- ▶ St. Mary's College of MD
- ▶ Savannah College of Art and Design
- ▶ Scripps College
- ▶ Smith College
- ▶ University of Southern California
- ▶ Stanford University
- ▶ Syracuse Univeristy
- ▶ Temple University
- ▶ Tufts University
- ▶ Tulane University
- ▶ University of Utah
- ▶ Vanderbilt University
- ▶ University of Virginia
- ▶ Virginia Tech
- ▶ Wake Forest University
- ▶ Walla Walla University
- ▶ University of Washington
- ▶ Washington University in St. Louis
- ▶ George Washington University
- ▶ Whitman College
- ▶ University of Wisconsin
- ▶ Worcester Polytechnic
- ▶ Yale University



¿Su hijo/a...

... no solamente sabe
las respuestas, sino
también hace
preguntas?



¿Su hijo/a...

... tiene buenas ideas
y también algunas
absurdas o
descabelladas?



¿Su hijo/a...

... contesta
preguntas en detalle
y con elaboración?



¿Su hijo/a...

... construye
abstracciones y
hace inferencias?



¿Su hijo/a...

... inicia proyectos y
crea diseños
originales?

¿Su hijo/a...

... se evalúa
críticamente?

Contacto

- ▶ Peter Ostrander, Coordinator
- ▶ 301-649-8240
- ▶ Peter_M_Ostrander@mcpsmd.org
- ▶ www.mbhs.edu
- ▶ @blairmagnet