



**Howard
County**
Public School System

Advanced Research

Good evening! We will
get started in just a few
minutes.



*“I was able to work with
a professional in my field
of interest and formed a
relationship that has
refueled my drive to
achieve my dream
career.”
— Seeda*

What would you
do if someone
offered you time
to study
something you
love?



**Howard
County**
Public School System

Advanced Research

Create your own
success story...
What happens next is
up to you!

Advanced Research Mission

Empower students to contribute to the larger community by applying, creating, and evaluating knowledge in a specialized area of study.





Advanced Research Courses

- AP Seminar (New for 25-26)
- Independent Research G/T
- Intern/Mentor G/T

Advanced Research and Typical GT/AP Courses

Typical G/T and AP Courses

- Accelerated/advanced content in a specific discipline
- Weighted credit for GPA
- Potential college credit based upon exam performance (AP)

Advanced Research

- Student exploration of an interest in great depth
- Application of content from other coursework
- Student-designed
- Weighted credit for GPA
- Potential college credit based upon exam performance (AP Seminar)

AP Seminar

Offered for the
2025-2026 school year



AP Seminar (Grades 9-12)

Students in this course...

- learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources
- engage in cross-curricular conversations that explore real-world issues by analyzing divergent perspectives.
- communicate their ideas individually and in groups.

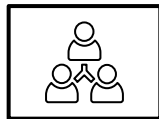
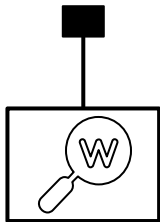


AP Seminar is a prerequisite for AP Research, which is expected to be available starting in 2026-2027.

AP Seminar Course Outline

1st Quarter: Inquiry and Investigation

Analyze, evaluate, and synthesize research on a teacher-selected theme

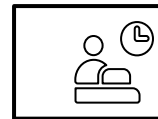
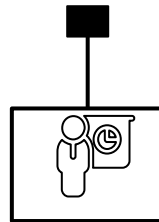


2nd Quarter: Performance Task 1

Team research project and presentation on a student-selected topic.

3rd/4th Quarter: Performance Task 2

Individual research project and presentation on a student-selected topic.

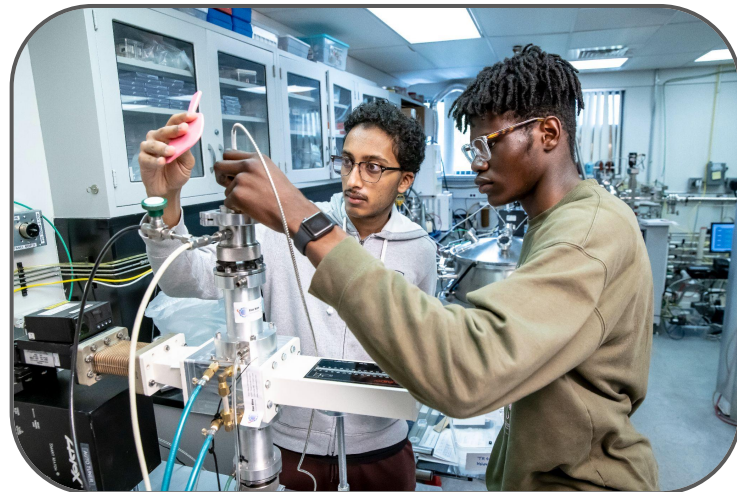


4th Quarter: AP Exam

Short answer and essay questions around developing an argument and essay.

Advanced Research

Independent Research G/T
Intern/Mentor G/T



What are your interests?

Independent Research and Intern/Mentor



Develop a
Knowledge
Base



Design a
Research
Study

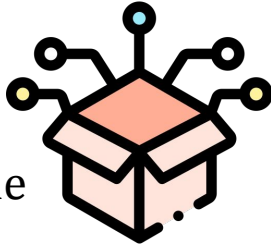


Analyze
Original
Research Data

**Student
Research
Question**



Write a
College-Level
Research Paper
Synthesizing the
Research



Develop an
Authentic
Product
Related to the
Research

Communicate
Results
(Presentation/
Portfolio)



Independent Research

Why G/T Independent Research?

- Explore YOUR interests!
- Conduct college-level research.
- Develop advanced writing and presentation skills.
- Receive daily in-school instruction from G/T Resource Teacher.
- Consult with professionals for research and feedback.
- Enjoy scheduling flexibility—no prerequisites or multiyear commitments.



“Independent Research is unlike any other class I’ve taken. I get to research what I am passionate about. It has taught me how to think creatively, persevere, manage my time, and think critically.”
— Aminu

Independent Research

“This experience was life changing and such a huge benefit when I got to college.” — Khelli

What might I research?

- Why is there so much stigma surrounding mental illness and how can schools better support students who suffer from depression?
- What rights do animals have and how can they be protected from abuse?
- How can artificial intelligence be used in farming to help end global hunger?
- How can female athletes lower their risk of ACL tears?
- Should college athletes be paid?
- What is colorism and how does it contribute to prejudice?
- How can dance therapy help children with Autism Spectrum Disorder?

Intern/Mentor

Why GT Intern/Mentor?

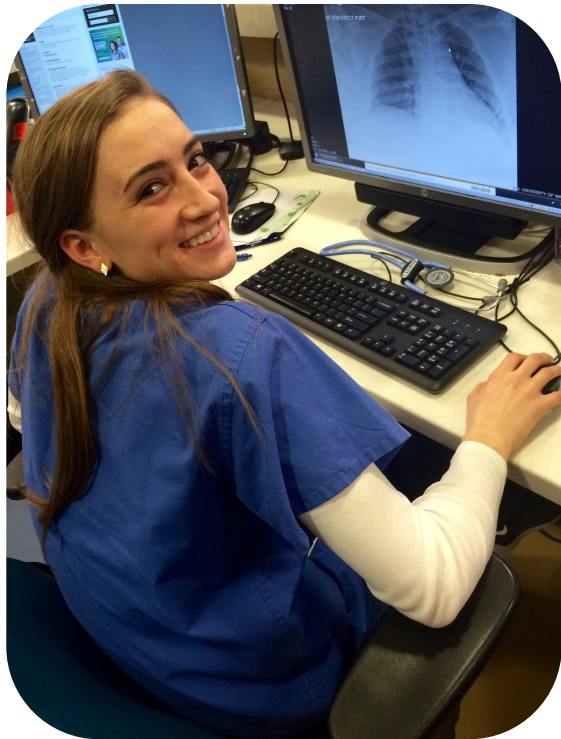
- Engage in real-world experiences for roughly 4-5 hours/week with a mentor in the community.
- Develop advanced skills in networking, problem solving, and collaborating through professional experiences.
- Develop advanced skills in researching, presenting, and writing through periodic instruction with G/T Resource Teacher.
- Enjoy scheduling flexibility— no prerequisites or multiyear commitments.



“The Intern/Mentor program gave me a once-in-a-lifetime opportunity to gain a lifelong mentor and confirm that my passion could indeed become my career.” — Kevin

Intern/Mentor

Where may students intern?



- Johns Hopkins APL
- NASA
- Area hospitals and medical offices, including Howard County Medical Center
- Law offices and the State's Attorney's Office
- Local schools
- Research institutions, including UMBC, UMCP, Johns Hopkins
- Non-profits
- Businesses
- And the list goes on...

Independent Research (IR) and Intern/Mentor (IM)

IR

- In-school
- Daily instruction from G/T Resource Teacher
- Professional advisor
- Typically grades 10, 11, and 12

IM

- Off-site
- Periodic instruction from G/T Resource Teacher
- Professional mentor
- Grades 11 and 12
- Reliable transportation

Research in Action



Liza Goldberg
2020 Atholton HS Graduate

Advanced Research

Who should take these courses?

Students who...

- Have a passion for something and want to devote time to it.
- Want to explore a career through scholarly research.
- Are preparing for competitions (i.e., science fair, History Day)
- Are interested in making a difference in the community.



Additional Information

Independent Research



The Gifted and Talented Independent Research course is a college-level course in which students design an original research study or creative production in a field of their interest.

GT Independent Research

WHY GT INDEPENDENT RESEARCH?

- ▶ Explore YOUR interests!
- ▶ Conduct college-level research.
- ▶ Develop advanced writing and presentation skills.
- ▶ Collaborate with peers and professionals.
- ▶ Develop time management skills.
- ▶ Enjoy scheduling flexibility — no prerequisites or multiyear commitments.



IN THE WORDS OF OUR STUDENTS

"Independent Research is unlike any other class I've taken. I get to research what I am passionate about. It has taught me how to think creatively, persevere, manage my time, and think critically."
—Alina

"The great thing about the GT program is that it pushes you to apply your research to real world problems."
—Clare

"I have learned which subjects truly fascinate me as well as my own work ethic and learning preferences. It's the perfect class for anyone who wishes to foster their writing, public speaking, and interpersonal skills!"
—Grace

CONTACT YOUR GT RESOURCE TEACHER FOR AN APPLICATION.

Intern/Mentor



The Gifted and Talented (GT) Intern/Mentor Program is a college-level course in which students design an original research study or creative production while working off-campus with a professional mentor in a field of their interest.

GT Intern/Mentor

WHY GT INTERN/MENTOR?

While engaging in real-world experiences through internships in the local community, students develop advanced skills in:

- ▶ Researching
- ▶ Presenting
- ▶ Problem solving
- ▶ Networking
- ▶ Writing
- ▶ Collaborating

WHAT FIELDS ARE AVAILABLE?

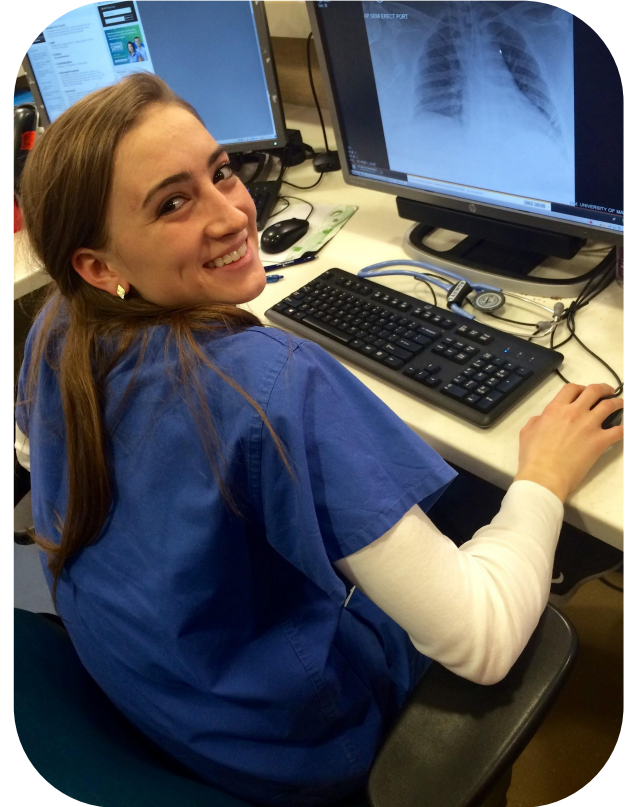
Almost any field is an option for our interns, including:

- Applied Arts
- Behavioral Sciences
- Business
- Clinical Medicine
- Computer Science
- Education
- Engineering
- Humanities
- Languages
- Law
- Mass Communication
- Performing Arts
- Science Research
- Social Activism
- Veterinary Medicine



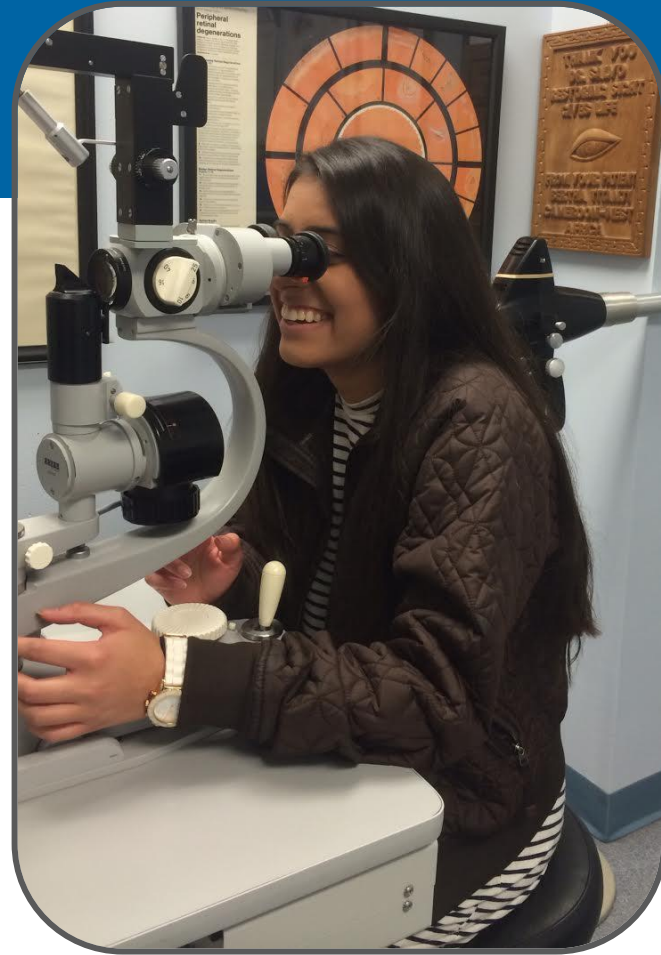
Other Benefits

- Time management
- Communication and presentation skills
- Networking with professionals and adult experts



Application Process (Intern/Mentor)

- Complete an application provided by your school's G/T Resource Teacher.
- Obtain teacher recommendations.
- Interview with G/T Resource Teacher regarding areas of interest.



Which course(s) should I take?

Advanced Research courses compliment one another but can also be taken independently. Students should register using the following course numbers:

AP Seminar

Course number - GT-500-1

*Independent
Research G/T*

Course number - GT-400-1

*Intern/Mentor
G/T*

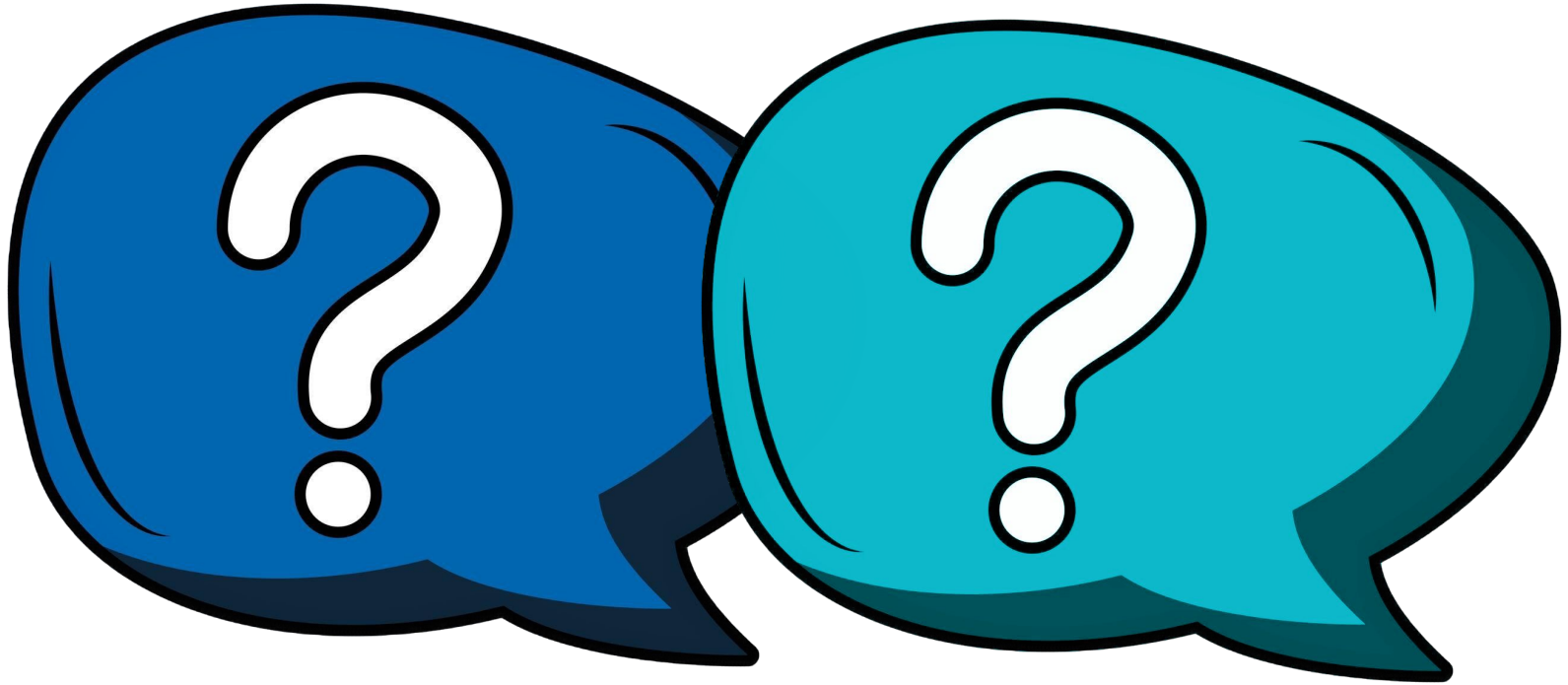
Course number - GT-430-1

Course number - GT-440-2

Several course numbers are listed in the course catalog for IR and I/M because students can repeat these courses over multiple years.

“This experience was life changing and such a huge benefit when I got to college.” — Khelli

Questions?



Your G/T Resource Teachers

Atholton - Ms. Mabrooka Chaudhry

Centennial - Ms. Toni Ireland

Glenelg - Ms. Leila Chawkat

Guilford Park - Ms. Allison Miller

Hammond - Mr. Alec Livieratos

Howard - Mr. Matt Stump

Long Reach - Ms. Beth Dungey

Marriotts Ridge - Mr. Paul Eckert

Mt. Hebron - Dr. Melissa Kiehl

Oakland Mills - Ms. Erin Smart

Reservoir - Ms. Janine Kucik

River Hill - Ms. Janine Sharbaugh

Wilde Lake - Ms. Jeannette Dixon



G/T Office

Debbie Blum
Coordinator
debbie_blum@hcpss.org

410-313-6800

Karen Saunderson
Resource Teacher
karen_saunderson@hcpss.org

Ginnie Gick
Technical Assistant
ginnie_gick@hcpss.org

