

GCHS New Course Proposals 2018-2019

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AP Research

- **Purpose:** This is the second course in the AP Capstone program.
- **Expectation:** Students will explore an academic topic, problem, societal issue, or concept that interests them.
- **Process:** Students will engage in a yearlong exploration that ultimately responds to a research question.

Summer Assignment →

*Sophomore Year

AP Seminar

Summer Assignment →

*Junior Year
or
Senior Year

AP Research

AP Research

1. Inquiry Process and Exploration
 - * Students evaluate the credibility of different perspectives
 - * Students consider the value of asking and answering questions
 - * Students investigate solutions
2. Understand and Analyze
 - * Students decipher numerous texts and academic journals
3. Evaluate Multiple Perspectives
 - * Students consider the complexities of their arguments
 - * Students identify biases and assumptions associated with their arguments
4. Synthesize
 - * Students add and organize the information presented by others, rather than repeat
5. Establish a medium for presenting

AP Research

Students are assessed with the following performance tasks:

- * Academic Paper
 - * Internship
- * Presentation and Oral Defense
 - * Content
 - * Process
 - * Methodology

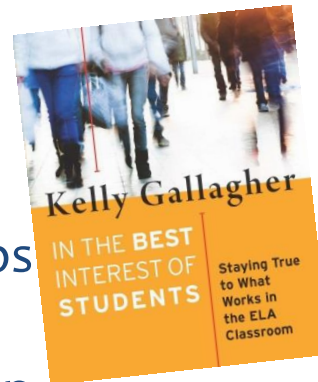
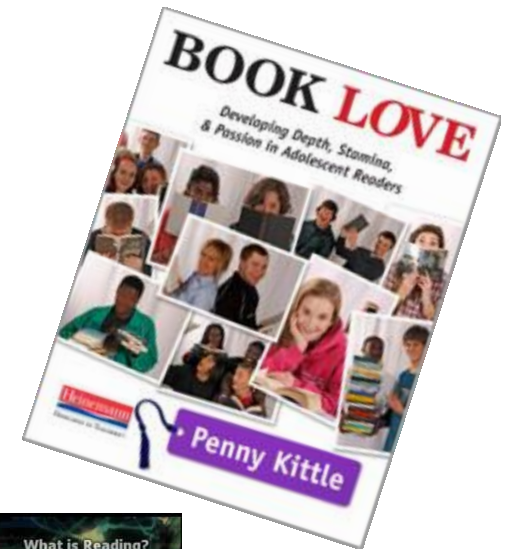
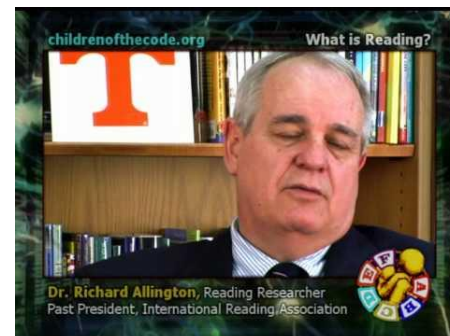
Reading and Responding to Fiction and Nonfiction

- **Purpose:** The course will provide instructional support for our struggling readers and writers.
- **Expectation:** The course will be designed around a balanced literacy model. Students will establish valuable reading habits.
- **Process:** Choice → Volume → Complexity



Reading and Responding to Fiction and Nonfiction

- * Supplemental Instruction
 - * Research-Based Instructional Strategies
 - * Data-Driven
- * Framework
 - * High-Success Reading
 - * Minilessons
 - * Conferences / Small Groups
- * Assessment
 - * Goal Setting and Reflection
 - * Parallel Tasks
 - * Progress Monitoring
 - * Anecdotal Notes



GLEN COVE HIGH SCHOOL SCIENTIFIC RESEARCH PROGRAM

Summer Assignment →

***9th Grade**
(May be 10th Grade)

***Scientific
Research Literacy**

Summer Assignment →

10th Grade
(May be 11th Grade)

**Second Year
Scientific
Research**

Summer Research →

11th Grade
(May be 12th Grade)

**Third Year
Scientific
Research**

Summer Research →

12th Grade

**Fourth Year
Scientific
Research**



GLEN COVE HIGH SCHOOL SCIENTIFIC RESEARCH PROGRAM

- **Purpose:** to write an original research proposal, complete an **independent research project** and write a scientific paper to submit to scientific competitions senior year
- **Expectation:** students who enroll in the Scientific Research Literacy class will complete the four-year research sequence
- **Exception:** students who become motivated to join the Research Program after their freshman year, may join the program with teacher recommendation and/or approval from administration

Summer Assignment

*9th Grade
(May be 10th Grade)

Summer Assignment

10th Grade
(May be 11th Grade)

Summer Research

11th Grade
(May be 12th Grade)

Summer Research

12th Grade

*Scientific
Research Literacy

Second Year
Scientific Research

Third Year
Scientific Research

Fourth Year
Scientific Research

GLEN COVE HIGH SCHOOL SCIENTIFIC RESEARCH PROGRAM

- **Timeline:** students spend **two summers** working on their **independent research project** as volunteers, with an outside mentor at a local university or laboratory
- **Specifics:** students also participate in a variety of problem-solving and skill-building activities to complete both individual and team projects within the classes that may also be submitted to scientific competitions

Summer Assignment →

*9th Grade
(May be 10th Grade)

*Scientific
Research Literacy

Summer Assignment →

10th Grade
(May be 11th Grade)

Second Year
Scientific Research

Summer Research →

11th Grade
(May be 12th Grade)

Third Year
Scientific Research

Summer Research →

12th Grade

Fourth Year
Scientific Research

SECOND YEAR SCIENTIFIC RESEARCH

(Anticipated start date: 2018-2019)



- **Continues** from the **Scientific Research Literacy** class.
- Students will **read and analyze research journals**, design, and conduct experiments.
- **First semester:** students will **create research reports** that can be submitted to science competitions e.g.: *Northwell Medical Marvels*, *Toshiba Exploravision*, or *Long Island Science Congress (LISC)*.
- **Second semester:** students will find **mentor scientists** at local **university laboratories** working in areas of interest to them to serve as project mentors.
- **Prerequisite:** Scientific Research Literacy and/or recommendation of Science Coordinator
- **Co-requisite:** Chemistry, or Earth Science



New Math Course Proposal



Computer Science Essentials



Course Content

- Introduction to Coding Fundamentals
- Creating Apps
- Developing Websites
- Programming using Python language

Training Cost

- 2 week training by Project Lead the Way
 - Summer 2018
 - Cost of \$2000

Digital Film Making

- * **Purpose** – This course will expand the scope of the TV Studio while offering an opportunity for students to achieve college and career readiness.
- * **Expectation** – Students will write, produce, direct and edit a fictional short film.
- * **Process** - Students will learn the complexities of film making acquiring 21st Century skills in screenwriting, storyboarding, casting, cinematography, sound reinforcement, lighting, all while collaborating with a team of peers.