

Cold Spring Harbor High School Research Program

Philosophy of the Research Program

- To encourage the spirit of curiosity;
- To promote independent thought;
- To foster a nurturing environment;
- To provide a rich learning experience.

What can you research?

- Biological Science
- Environmental Science
- Physical Science (Chemistry, Physics)
- Engineering
- Behavioral Science
- Political Science
- Computer Science
- Mathematics

Introduction to Research 2

This course is designed for highly motivated students who wish to take the skills that they acquired in *Introduction to Research 1* and further develop them by conducting guided independent research. As in *Introduction to Research 1*, students will be encouraged to explore topics and ideas that interest them and focus on taking one project from inception to conclusion. This course will provide opportunities for students to compete in local and regional competitions.

Topics covered in this course include:

- The ethics of research.
- Experimental design.
- Data gathering and analysis.

This course meets every other day for one semester (Spring semester only).

How your quarterly grade will be determined

Tests

Tests in this course are infrequent. Tests will always be announced. If you miss a test you must take a make-up test. You must take the test on your first day back in school. Missed tests due to an illegal absence (i.e.: cutting class) will result in a zero.

Projects

There will be a number of projects that you will work on in class. In each case you will be asked to solve a problem or answer a question. Success is nice but effort is what matters. In addition, you should have your own project in progress. Depending on the nature of your project, you may be in the proposal stage or may be actually working on it.

Presentations

On several occasions you will make presentations to the class. The presentations will usually, but not exclusively, be based on your reading of journal articles.

Quarterly Grade Calculation

Your quarterly grade will be determined by the fraction:

$$\frac{\Sigma \text{ Earned Points}}{\Sigma \text{ Possible Points}} \times 100$$

Keep track of your grades and save all papers that are returned to you.