



GAITHERSBURG HIGH SCHOOL

314 SOUTH FREDERICK AVENUE • GAITHERSBURG, MARYLAND 20877

301-840-4700 • FAX: 301-840-4707

Integrated and Applied Physical Science 2013/2014 COURSE SYLLABUS

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Integrated and Applied Physical Science

This course provides students opportunities to engage in the investigation and application of physical sciences (Chemistry, Physics, Earth). Students will delve into and design solutions to authentic problems based on laboratory explorations. Focus topics emphasize the trans-disciplinary nature of science and it's the role in innovation and solving local and global issues. There are many choices for each quarter so the teacher will send home a summary of each chosen topic in the beginning of each quarter.

CLASS EXPECTATIONS AND RULES

- Respect others and their property
- Be on time to class (in your seat before the bell rings)
- Be attentive and participate in class
- Bring necessary materials to class every day
- Pull own weight in group assignments
- **ATTENDANCE IS MANDATORY, this is a group oriented course.**
- Think SAFETY (NO eating or drinking in class, goggles MUST be worn at all times during labs).

MATERIALS

It is suggested that each student has the following:

- Calculator (with scientific notation)
- A composition notebook for Engineering Design/Journal
- 3-ring binder
- Class folder

GRADING Grades will be recorded as:

| | |
|---------------------------------|---|
| 40% | Summatives (Tests and Final Project) |
| 50% | Formatives (includes group participation) |
| 10% | Homework |
| A = 90% B = 80% C = 70% D = 60% | |

It is the students responsibility to keep all graded papers in case of a gradebook conflict.



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HOMEWORK

Homework will be assigned on a regular basis and students are expected to try every problem. Unless otherwise specified all homework is due the following class period. We will go over any difficult and/or requested problems in class. Homework is graded for correct answers and completeness.

LATE WORK

- Ample time is given for all assignments to be completed therefore all work is due on the specified due date at the beginning of class. Late homework will not be accepted, this includes labs.

ATTENDANCE: MANDATORY to pass, this is a group oriented course.

- First absence: Teacher will acknowledge absence to student
- Third Unlawful Absence: Teacher will contact parents
- Fifth Unlawful Absence: InForm letter will be generated; student will meet with administrator to create an attendance contract
- Continued Absences: Collaborative Problem Solving Referral (CPS)

TARDY VIOLATIONS

- Tardy #1: Teacher warning
- Tardy #2: Parent contact
- Tardy #3: Teacher assigns detention
- Tardy #4: Administrative detention and/or ISS/ISI

TARDY POLICY

Students are expected to be in the classroom by the tardy bell. If not, they are to be considered tardy. If students are more than 20 minutes late, the tardy is considered to be an absence.

EXTRA HELP AND MAKEUP DAYS

If you need extra help arrange to come at lunch or after school. It is your responsibility to seek help when you need it! Come prepared with questions to ask.

- Test and Quiz Makeups: The first makeup day upon your return to school.
- Lab Makeups: Within one week of the missed lab.



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MAKEUP WORK

Completing and turning in makeup work on time is YOUR responsibility. Notes may be obtained from a fellow student (choose someone who takes good notes). You are responsible for all material covered during an absence.

- Any assignments that were collected on the day(s) you were out are due the first day you are back.
- No makeup work will be accepted AFTER the Unit Test for any one unit. The Unit Test marks the end of that unit.
- Any work missed on the day(s) you were out must be completed and turned in according to the following schedule:
 - 1 day absence: 3 school days to make-up work
 - 2 days absent: 5 school days to make-up work
 - Additional days absent: see me within 2 days of your return to make arrangements -
 - Test and Quiz Makeups: If you miss a test or quiz you must make it up on the first makeup day after you return. For example if you miss a test on Monday you must come on Tuesday to make it up.
 - Lab Makeups: Lab work may only be made up at lunch or after school within one week of the absence, unless an alternate lab is designated.
 - If you know in advance you will be absent (particularly for field trips, sports, etc.) turn in assignments
 - BEFORE you leave. Take tests BEFORE you leave. See me to schedule a test date.

******* NOTE:** Students cannot make-up work/group participation missed on a day of an unexcused absence -- this includes labs and tests. We will strictly adhere to this rule.

LABS AND LAB REPORTS

Safety is our utmost concern in the lab and unsafe inappropriate behavior WILL NOT BE TOLERATED. The use of safety goggles during labs in which any chemicals, glassware, or heat is utilized is MANDATED BY STATE LAW.

ACADEMIC INTEGRITY (REMEMBER: If you can Google, then so can we.)

You are on your honor not to copy or cheat. While you are encouraged to work together on many assignments, "**working together**" does NOT imply copying another's work. Plagiarism includes not only downloading information from an encyclopedia or Internet site and representing the information as your own, but it also includes taking passages or whole labs from a partner and turning it in as your own. If you are caught copying from your partner, you will **BOTH** take a 0.