

Instructor David Goerzen

Class AP Physics

Period 4th hour

### Course Description:

AP Physics B is an algebra and trigonometry based course that covers modern and classical physics, and is equivalent to an introductory university physics course. Course goals (summarized from the College Board AP Physics B Course Description) include:

- learning basic physics knowledge,
- developing problem solving abilities by asking questions and experimental investigation,
- enriching student attributes by increasing curiosity and creativity,
- making connections between physics concepts and real world applications.

A large emphasis will also be placed on peer related activities. Peer-tutoring (focus/study groups) are strongly recommended. Having the skill of being able to work with others and constructively reach a common goal will have lasting effects throughout a learner's life.

### Materials needed for the class:

Each student is required to bring the following to each class: your textbook, a lab notebook, 1½ inch 3-ring binder with paper and dividers, 4-5 multicolored pens (black, red, green, blue, purple, orange, yellow...), scientific calculator (you must provide your own), and a mechanical pencil to take notes and complete homework.

### Types of activities taking place in your classroom:

Group/peer work and projects. Mini and full length labs, including inquiry/open-ended labs. Individual and group presentations. AP exam preparation questions and review.

### How students will be evaluated:

Your grades will be calculated based on the percentages below.

Semester Grade:

Assignments	- 15 %
Labs	- 15 %
Quizzes	- 15 %
Tests/Projects	- 35 %
Sem. Test	- 20 %

Overall Year Grade:

1st Semester	- 35 %
2nd Semester	- 35 %
Final	- 30 %

### Discipline rules and expectations:

Expectations

1. Respect the right of the teacher to teach and the students to learn.
2. Come to class prepared and on time, with books, paper, pencil, and calculator and completed assignment.
3. Respect rights, feelings, and property of others in the classroom.
4. Use appropriate language.
5. Follow all classroom rules and lab safety rules.
6. No unauthorized experimentation or activities during lab or activity time.

Rules/Procedures

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1. The first five minutes of class is for you to prepare for class (answer extra credit, complete assignments, ask questions about assignments, turn in assignments, get out books, paper, and pencil, etc...). You should be quiet and prepared to begin after this five minutes. If a student gets in the habit of not using this time appropriately, they will be separated from the class and required to meet with me at the next available office hours.
2. When a task is assigned to the class, or to individuals, I expect each student to be working on that task until other instructions are given. Most of the time I don't mind if students work in pairs or small groups, as long as they are focused on the task at hand. If students are not able to constructively work with others, they will be separated from the class and will need to complete assignments on their own.
3. During a mini lab or full-length lab, each lab group member is responsible for contributing to the lab and completing a lab write-up. Lab groups will be assigned by me and will change every month. If a student is not contributing to the group and has to be repeatedly reminded to stay on task, they will be sent back to their seat and will not be able to complete the lab. The student will have one of the following two options: They can either receive a zero on the lab, or they will be given an enrichment assignment that must be turned in for half credit towards the lab.

Consequences for inappropriate classroom behavior:

Inappropriate behavior will result in the following consequences:

1. Verbal warning.
2. Detention. Missed detentions will result in doubling of the detention time.
3. Parents notified and referral to office.
4. Severe Disruption: Student will be referred to the office.
5. Unauthorized experimentation and improper behavior during labs may result in exclusion from labs for the rest of the semester and a score of zero for all labs.

Additional Comments

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Instructor's Name

Name of Class:

David Goerzen

AP Physics

I have read and understand the Classroom Expectation:

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Parent/Guardian signature

Date

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Student signature

Date