

FORSYTH COUNTY COURSE SYLLABUS
2017-2018

COURSE TITLE: AP Physics 1/IB Physics HL-1

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Course Description: The AP Physics 1 course is a year-long, first-year physics course that satisfies the physics requirement for graduation. The course introduces a mathematical approach to the study of the physical universe. Emphasis is placed on Kinematics, Dynamics, Circular Motion, Energy, Momentum, Simple Harmonic Motion, Waves, Electrostatics, DC Circuits.

The course design is based upon lecture, class discussion, problem solving, laboratory, and evaluation. Demonstrating knowledge in physics will be accomplished by discussion, short answer assignments, and evaluations. Problem-solving skills will be evaluated through assigned exercises and evaluations. Critical thinking skills will be demonstrated through creating laboratory hypotheses and procedures for testing those hypotheses, as well as through data interpretation and scenario evaluation. Laboratory investigations will be written up and maintained in a Lab Notebook. A Semester Project will allow the student to bring together the content of the semester in a product to emulate a connection with the Real World.

Required Assignments:

- Summative Assessments (75% of semester average)
 - Major Tests (Unit, Cumulative)
 - Lab Notebook (0.5)
 - Semester Project
- Formative Assessments (25% of semester average)
 - Homework
 - Class work
 - Lab Activities

Laboratory Work: There will be a laboratory assignment nearly every week during the 90-minute block class. You will work with your lab partners during the class to collect and evaluate the data in order to solve a problem. A lab report is then generated as an individual assignments that will be recorded in your lab notebook. The lab will also need to be reviewed and signed off by the teacher by the end of that Lab Week. The lab notebook will be due at the end of each Unit on the day of the Unit Test. The Notebook will have a Summative grade value of 0.5.

Electronic Assignments on ItsLearning and WebAssign: There will be homework and tests administered through the school's secure online learning platform and the commercial WebAssign platform. These will often be timed assignments requiring access to a home internet connection and computer. Students without these should notify Mr. Hailes so other arrangements can be made. If you turn an assignment on line late. You are required to send an email requesting Mr. Hailes to go back and look for you late work on line to retrieve a grade.

Standards: The College Board Standards for Physics 1 are available on Its Learning in the Course Information Folder.

Learning Resources/Textbook(s): Students will have access to an online textbook as stated in the school policy given here: *With the emergence of technology as a tool for learning, South Forsyth High School will be utilizing various resources to assist with instruction, including ItsLearning, online textbooks, and interactive websites. In addition to these web based instructional tools, this course will also have a classroom set of textbooks. Should you feel that your child would benefit from having a textbook at home in addition to the classroom textbook, please contact Mr. Hailes.*

Supplies needed for class: Pencils, pen, graph-lined Spiral notebooks, scientific calculator, USB flash drive, ruler, compass and BYOT (Laptop, I-pad, Tablet or Smart Phone).

Availability for Extra Help: I am available for help most morning and afternoons. Making an appointment will assure that my time is available.

Make-up Work: All missed work and assessments are the responsibility of the student when they are absent from school. A student who is absent on the day of a regularly scheduled assessment will be responsible for completing the assessment on the next class period. Students who have been absent more than two consecutive days (including the assessment day)

will be given five (5) school days to make up the assessment and/or other assignments. This does not include lab reports, and online problem sets or tests where the deadline has been posted in advance. The teacher has the discretion to grant a longer period of time to make up work if there are extenuating circumstances.

Long-term projects must be turned in on the previously scheduled date. If a student is absent on that day, they must turn in the project the day they return to receive full credit. For every day late thereafter, their highest possible grade will be a 70.

Late daily assignments can be turned in late with a 10 point deduction per day the assignment is late until the summative test on that unit. Once that unit test is over, no daily (formative) assessments will be accepted. If you turn an assignment on line late. You are required to send an email requesting Mr. Hailes to go back and look for you late work on line to retrieve a grade.

Grading Policy:

A = 90 – 100

B = 80 – 89

C = 70 – 79

Failing = Below 70

Summative grades are assignments/assessments such as unit tests, projects, essays, research papers, and presentations which may integrate multiple standards. These grades reflect student mastery of standards after the learning activity is completed and count as 75% of each semester average.

Formative grades are assignments such as homework, class work, quizzes, drafts or portions of essays, projects, research papers, and presentations. They provide practice while learning. These assignments, observations, and conversations are used to inform both the teacher and student about the learning process and lead to potential success on summative assessments. They count as 25% of each semester average.

Work Habits are behaviors that have the potential to increase academic achievement, promote lifelong learning, and foster personal accountability.

High School Work Habit Categories and Scoring

1: Does not meet 2: Meets 3: Exceeds

Responsibility (RE): The student adapts to classroom practices.

1. Requires frequent redirection; strays off-task; disrupts learning environment; fails to follow class procedures.
2. **Is a self-starter; remains on-task; asks questions for clarifications when needed; applies strategies for meeting learning goals; follows class procedures.**
3. Displays independent initiative; maximizes opportunities; solves problems.

Participation (PA): The student pursues learning through active involvement.

1. Disengages from the learning environment; responds only to teacher prompts.
2. **Engages in activities and discussions.**
3. Leads others to participate; explores new class ideas and approaches.

Assignment Completion (AC): The student completes work by the designated time/date and according to directions.

1. Fails to complete assignments or submit work; struggles to follow directions.
2. **Produces completed work on a consistent basis by the designated time/date; follows directions.**
3. Demonstrates new applications and examples of standard; exceeds assignment expectations; extends personal learning.

Interpersonal Skills (IS): The student interacts with others to create a positive learning environment.

1. Lacks flexibility when working with peers; isolates self.
2. **Works well with peers; listens and speaks respectfully; questions ideas rather than the person.**
3. Adjusts to a variety of classroom roles; mediates; influences others to learn.