**Physics** (Ancient Greek: φυσική (ἐπιστήμη) phusikē (epistêmē) or "knowledge of nature", from φύσις phúsis "nature") is the natural science that involves the study of matter and its motion and behavior through space and time, along with related concepts such as energy and force. (Wikipedia)

**What you should expect:** AP Physics II is an algebra-based study of classical physics. It is a college level course, and is designed to enable you to pass the AP Physics II exam provided you take this seriously and do the work conscientiously and consistently. The topics investigated throughout the course are built upon one another. Failure to "catch on" to any key concept in the course could "snowball" into grasping too few concepts to succeed. **Do not get behind! This class moves exponentially.**

**Topics Covered:**
- Electrostatics: electric force, electric field, and electric potential
- DC and RC circuits (steady state only)
- Electromagnetics
- Fluid Statics and Dynamics
- Thermodynamics, Ideal Gases and Kinetic Theory
- Geometric and Physical Optics
- Quantum Physics, Atomic and Nuclear Physics

**Materials:** (Bring these items to class everyday) Materials will be needed by next class period.
- A scientific calculator (no phones and no going to math to borrow one!)
- Spiral Notebook (3 or 5 subject)
- Mechanical Pencil (no exceptions)
- 1 large eraser (mistakes are not only expected but required to succeed)
- highlighter
- Folder for homework packets (optional)
- Graph paper (optional)

**NOTE:** THERE ARE NO CLASS SUPPLIED TISSUES (BRING YOUR OWN PERSONAL PACK!!)

**Homework Assignments:**
- Assignments will be posted daily on promethean board, white board and the HW Calendar on my website.
- Assignments will be collected every Tuesday for even classes & every Wednesday for odd classes.
- Each question must be completely and correctly solved with all work showing. Assignments are graded using the following non-negotiable criteria:
  1. Sketches to help define the problem.
  2. Equation(s) required – in variable form (VE)
  3. Show all work in manipulation of the equation as well as numbers used in the equation. (MD)
  4. Final answer with appropriate units, boxed/circled/highlighted. (U)
  5. Finally work must be presented in an organized and professional manner. (P)

Failure to provide satisfactory work and meet due date will result in partial or no credit for the assignment.
Absences: Missing a block day of AP Physics II is extremely detrimental to your success. However, when life happens it is your job to stay up to date with the extension of our classroom via website and google classroom. (NO EXCUSES)

- Assignments posted daily on the website and handouts, homework problems and daily notes are posted on class website.
- Missed labs and exams must be made up at my convenience.
- Due dates for absent students will be postponed only by what is required by the school absence policy. You should expect to always keep up with the class on assignments.

Missing class may sometimes be unavoidable, but it is usually easier to just attend.

GRADING
18 – Week grades will be based on the following percentage breakdown:

- 25% Homework Packets
- 25% Homework Quizzes
- 20% Labs/Class Work
- 30% Unit Tests/Projects

Semester grades are determined by counting the 18 week grade as 80% and the final exam as 20%.

Do not ask for any additional or individual extra credit. Keep up and try hard with the original work and you won’t need the “extra” work.

ACADEMIC HONESTY
This is taken very seriously! There is no excuse for cheating. Do your own work and be proud of the success that comes with it! The only thing that cannot be taken from you no matter what is your education!

School policy on cheating:
- 1st offense: all involved get zeroes, a referral, and parent contact.
- 2nd offense: student will receive a W/F from the class.

Exams in AP Physics: Exams (including quizzes, tests and final exams) in this course may contain Multiple Choice questions, Free Response questions, or both. Please be advised of the following:

- Exams are scored according to the College Board’s rubrics.
- Grading physics free-response questions fairly and accurately is an involved process. Please allow a full week between the time you take such a test and the time your score is available online.
- Tests will not be returned for you to keep. You will have the opportunity to review your graded tests only in class, where you may take notes and ask questions on them. (To maintain test security and fairness, I do not return tests to students.)

AP Exam: You are encouraged to take the AP Physics II exam after completing this class. Many colleges and universities will grant you science credits with a passing grade on this exam. More information will be provided on the AP exam when sign-ups for the exam occur during the second semester.

Finally – Get involved, ask questions. Be mentally alert. Get and stay organized. ASK for help earlier rather than later!

I may have up to 170 students. You have 1 AP Physics teacher. I try my best to be aware of any difficulties or confusion, however it is your job to ask questions and seek help as needed. I’m looking forward to a productive year!

Parents: Email is the best way to get a hold of me and I will respond within 24 hours.

Cell phone policy: See attached contract.