Room: 217    Website:  www.ops.org/high/burke/staff/armagan (best way to contact)    Help  (please make an arrangement with me)

Course Description and Laboratory

Advanced Placement Physics 1 is a comprehensive introductory physics course that investigates mechanics, energy theories and their applications through algebra and investigative and inquiry-based learning. The goal is to develop foster critical thinking and reasoning skills.  AP Physics 1 Exam: Wednesday, May 7, 2020 (12:00)
A portion of this course explores physics by doing lab activities with a greater emphasis on inquiry-based learning.

Teaching Philosophy

I want to provide the most comfortable and safe learning environment for you so that you are allowed to make mistakes to learn from them to develop a lifelong passion for learning.  I also hope you develop empathy and compassion for others.
I have a strong academic and research background in physics, nuclear physics, mathematics and engineering.

Prerequisite

You should have completed geometry and be concurrently taking Algebra II or an equivalent course. Although this course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself.

Course Content

Explores motion, forces, rotational motion, work, energy, and power; mechanical waves and sound, and electricity introductory simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world (AP College Board).” The course follows the AP Physics 1 Guidelines as indicated in the AP College Board© on AP College Board Website.

LABORATORY ACTIVITIES: This course uses laboratory activities and procedures including write-ups and reports aligned with the each of the concepts covered in class. Please follow all safety rules.

Classroom Expectations

- Maturity and an open mind.
- Come prepared; have a designated notebook or 3-ring binder
- Follow all safety rules during lab processes and otherwise.
- All school rules will be followed as stated in the student handbook.

Keys to success in this course
Please come and see me if you have any questions or concerns.

Please be on time to class.

Take notes and ask questions.

Proficiency/ Themes and Needed Skills:
Critical thinking and Synthesis/Analysis: Using science and mathematics (especially algebra) background and applying them to the real national and world issues. Reading and analysis, writing, speaking, collaboration, presentation skills are also essential part of this course.

OPS Secondary Grading Practices*
All coursework and assessments are evaluated based on the level of student learning from “below basic” to “advanced.” This course will provide multiple opportunities to achieve at the “proficient” to “advanced” levels. Students are evaluated based on a proficiency scale or project rubric. Proficiency scales for this course are available upon request (teacher will identify location such as portal, teacher website, attached, etc.) For the standards based grading scale, refer to the Burke High School Student Handbook.

Redoing/Revising/Late Work Student Coursework
1. Students are responsible for completing all coursework and assessments as assigned.
2. Students are expected to complete assessments when given to the class, or, if a student was justifiably absent, an assessment may be taken at a time designated by the teacher.
3. Redoing, retaking, or late work may be allowed for full credit during that unit of study based upon the teacher’s professional judgment and evidence collected throughout the unit. The time and location for redoing, retaking or revising will be done at the teacher’s discretion in consultation with the student and parent(s).
4. Scores for student work after retaking, revising or redoing will not be averaged with the first attempt at coursework, but will replace the original score.

“Burke High School is dedicated to providing an exemplary education through the collaborative efforts of students, parents, staff and community”