February 2016 **Physics 40S Outline** **Instructor:** Mr. Brick

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**Course Overview**

This course is intended to educate students on the foundations of physics so that they can be successful in university. To be successful in this course, I strongly urge each student to try their best in regards to: attendance, note taking, homework, participation, study, and asking questions.

Topics

1. Mechanics
   1. Kinematics
   2. Dynamics
   3. Momentum
   4. Projectile Motion
   5. Circular Motion
   6. Work and Energy
2. Fields
   1. Exploration of Space
   2. Low Earth orbit
   3. Electric Fields and Magnetic Fields
3. Electricity
   1. Electric Circuits
   2. Electromagnetic Induction
4. Medical Physics

### Textbook & Materials

* Text Book
* Three ring binder
* Notebook (for a journal)
* Pen & Pencil, ruler
* Scientific Calculator

**Assessment and Evaluation**

|  |  |
| --- | --- |
| Term 70% | Final Exam 30% |
| * Tests * Quizzes * Assignments * Journal * Interview/group discussions * Mid Term | * The final exam is created by Mr. Brick and is based on material covered over the semester. |

**Class Policies**

**Classroom Guidelines**

* Mutual respect
* Come prepared with books and a writing utensil
* Be on time
* Food and drink are allowed but students must clean up after themselves. Failure to keep the class clean will result in a loss of food privileges.
* Washroom policies will be discussed in class.
* School attendance, punctuality, and plagiarism rules in the Bear Book apply to this course.

**Attendance:**

Attendance is an extremely important part of this course. IF a student is going to be away, they must make every effort to inform the teacher in advance. With advance notice, proper arrangements can be made.

**Missed Class/Missed Test**

* Students are responsible for any and all work missed while away from class. Students are responsible for organizing a make up time to make up their missed assignments/tests.

**Homework**

* Students will be given class time to work on problems but student ***MUST*** complete all of their work to be successful. For some, this will require roughly 20 minutes of homework a day.

**Electronic Devices**

* Students are allowed to have their personal electronic devices on them. Students are to use these devices to help them research material and access online material. **STUDENTS CAN NOT USE THEIR PERSONAL DEVICES AS CALCULATORS ON ASSESSMENTS**. If a student is playing games or accessing social media, I reserve the right to confiscate the device. Multiple offenses will increase the length of time I hold on to the confiscated device.
* Please go to the web site <http://mrbrick.weebly.com> for documents used in class and extra resources.

**Signatures**

Student:

Parent: