**Physics 112- Course Outline 2014**

**Mr. Felix**

**Curriculum**

**Unit 1: Kinematics**

* Vectors
* Graphing Motion
* Kinematic Equations
* **Unit 2: Dynamics**
* Introduction
* Newton’s Laws
* Introduction to Momentum

**Unit 3: Work and Energy**

* Work, Power and Efficiency
* The Conservation of Energy

**Unit 4: Waves**

* Fundamental Properties
* Sound Waves and Light Wave

**Supplies**

1 Duo Tang (and paper) for Formative Assessments/Bell Work

**Scientific Calculator**

Scribbler or Binder (and paper) for notes, handouts, etc.

Pen, Pencil, Eraser, Ruler and Protractor (for vector diagrams)

**Textbooks**

Physics (McGraw-Hill Ryerson)

**On-Line Resources**

The Physics Classroom

<http://www.physicsclassroom.com/>

Physics 20 Note-A-Rific

<http://www.studyphysics.ca/page03.html>

APlusPhysics.com

<http://www.physicsclassroom.com>

<http://sshsroom236.weebly.com/>

\*\*\*\*\* Subject to Change\*\*\*\*\*

**Assessments**

**Summative Assessments** (assignments, quizzes, projects, and tests) will be used to determine what you have learned by the end of a learning period. Your final mark will be calculated by combining your summative assessment mark and your exam mark (70/30).

**Term 1: 35%**

**Term 2: 35%**

**Final Exam: 30%**

**In accordance with SSHS administrative policy, ALL of your essential work needs to be completed in order to receive a report card grade. If any work is incomplete, your report card will show no mark available until the work is received.**

**The Pass Mark for this course is 60%**

**Expectations**

* Students are expected to take responsibility for their own learning.
* Students are responsible for obtaining any work covered (including homework) during absences.
* It is expected that students will spend a **minimum** of 30 minutes on Physics homework every night. Homework will be assigned daily, and students are expected to review material covered each day in order to keep up.
* Extra help is available by request at lunch time and at Guided Study. It is up to the student to request and arrange these extra help sessions. Extra help may be requested only after the student has attempted all assigned problems, read all of the relevant material, and then tried all problems again. Physics in not a passive subject you cannot learn by watching, only by doing!!!
* Late Assignments: You have a three day grace period:
  + 1st day late you will lose 10%
  + 2nd day late you will lose 20%
  + 3rd day late you will lose 30%
  + On the morning of the 4th day the assignments will not be accepted!!!!!
* Quiz: If you are absent the day of the quiz or test unexcused you will receive a grade of zero! If excused you will be exempt from that quiz.

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