

# PHYSICS A

Textbook - *Physics: principles and problems*

## Topics

### Semester A

- ❖ Unit 0: Measurement and graphing (chapter 1)
- ❖ Unit 1: Uniform Motion (chapter 2)
- ❖ Unit 2: Accelerated Motion (Chapter 3)
- ❖ Unit 3: Forces (Chapter 4 & 5)
- ❖ Unit 4: Two Dimensional Motion (Chapter 6)
- ❖ Unit 5: Gravitation (Chapter 7)
- ❖ Unit 6: Momentum (Chapter 9)
- ❖ Unit 7: Work and Energy (Chapter 10 & 11)

### Semester B

- ❖ Unit 1: Static Electricity & Electric Field (Chapter 20 & 21)
- ❖ Unit 2: Current Electricity & Circuits (Chapter 22 & 23)
- ❖ Unit 3: Magnetic Field & Electromagnetic Induction (Chapter 24 & 25)
- ❖ Unit 4: Waves and Sound (Chapter 14 & 15)
- ❖ Unit 5: Light, Mirrors and Lenses (Chapter 16, 17 & 18)
- ❖ Unit 6: Thermal Energy (chapter 12)
- ❖ Unit 7: Nuclear Physics & Quantum Theory (Chapter 27 & 30)

## Materials

- ❖ Bring to class daily: **class notes & assignment packet** in a two pocket folder, a *scientific non-graphing* calculator, a ruler, a protractor, pencils and pens (black or blue), paper. Scientific calculator must have trigonometry functions.

## Grading

- ❖ Grades will be based on:
  - Tests (35%)
  - Quizzes (30%)
  - Labs, Graded assignments (30%)
  - Completion Assignments (*homework, classwork*) (5%)
- ❖ Assignments will receive **no credit** for answers that are **missing calculations/work**.
- ❖ **Tests** are not reassessable.
- ❖ **Quizzes** are occasionally reassessable. Reassessment will be contingent on demonstration of active participation during class and that all homework and class work due prior to quiz were completed by the due dates and corrected before the quiz.
- ❖ Re-teaching and reassessment must occur before the unit test. Open notes **Homework Quizzes** will be given at the beginning of class from time to time without notice.