



Course Outline
Physics 122
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2020-2021

Physics is heavily based upon problem solving. This means physics relies less on memory and more on applying ideas and concepts to solve problems. If you want to do well in physics, you need to understand *how* to approach problems, organize the information you are given, apply concepts and utilize math to solve problems.

Curriculum

Unit One:

- Section 1 - Force Problems
- Section 2 - Static Torque
- Section 3 - Relative Motion
- Section 4 - Collisions and Explosions in One Dimension
 - Elastic and Inelastic Collisions in One Dimension
 - Collisions and Explosions in Two Dimensions

Unit Two:

- Section 1 - Uniform Circular Motion
- Section 2 - Universal Gravitation
- Section 3 - Simple Harmonic Motion (If Time Allows)
- Section 4 - Projectiles

Unit Three:

- Section 1 - Electrostatics
- Section 2 - Electric Circuits (If Time Allows)
- Section 3 - Magnetic Fields (If Time Allows)
- Section 4 - Electromagnetism and Electromagnetic Induction (If Time Allows)

Formative assessments will be given to provide feedback, determine what you can do well and what you need to improve upon, help you develop the ability to self-assess and involve you actively in your learning.

Summative assessments will be used to evaluate your learning at the end of an instructional period.

Materials

Binder or Notebook
Scientific Calculator
Ruler/Protractor
Pen/Pencil

Evaluation

TBD