AP PHYSICS 2

COURSE OUTLINE

**Unit 1*: Fluid Mechanics*** – 4 weeks

* Chapter 11: Fluids

**Unit 2*: Thermodynamics*** – 4 weeks

* Chapter 12: Temperature and Heat
* Chapter 13: The Transfer of Heat
* Chapter 14: The Ideal Gas Law and Kinetic Theory
* Chapter 15: Thermodynamics

**Unit 3*: Electric Force, Electric Field, and Electric Potential*** – 4 weeks

* Chapter 18: Electric Forces and Electric Fields
* Chapter 19: Electric Potential Energy and the Electric Potential

**Unit 4*: Steady State DC and RC Circuits*** – 4 weeks

* Chapter 20: Electric Circuits

**Unit 5*: Magnetostatics and Electromagnetism*** – 4/5 weeks

* Chapter 21: Magnetic Forces and Magnetic Fields
* Chapter 22: Electromagnetic Induction

**Unit 6*: Geometric Optics and Physical Optics*** – 4/5 weeks

* Chapter 24: Electromagnetic Waves
* Chapter 25: The Reflection of Light: Mirrors
* Chapter 26: The Refraction of Light: Lenses and Optical Instruments
* Chapter 27: Interference and the Wave Nature of Light

**Unit 7*: Quantum, Atomic, and Nuclear Physics*** – 4 weeks

* Chapter 29: Particles and Waves
* Chapter 30: The nature of the Atom
* Chapter 31: Nuclear Physics and Radioactivity
* Chapter 31: Ionizing Radiation, Nuclear Energy, and Elementary Particles