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