Textbook: Conceptual Physics, Paul G. Hewitt, Prentic Hall, 201102

Grade Determination:

Semester Grade: Tests = 75 %; Classwork (Homework and Labs) = 25 %; Participation = Extra Credit

Final Grade: $0.40 \times (\text{Semester } 1 + \text{Semester } 2) + 0.20 \times \text{Final Exam (Cumulative)}$

First Semester

Chapter	Торіс
1	Topic 1: Nature of Science 1. Describing Science 2. Steps of the scientific method
-	Topic 2: Measurement 1. Accuracy and precision 2. Metric Units and Prefixes 3. Graphing
2, 10	Topic 3: Motion 1. Nature of motion 2. Acceleration 3. Center of mass
4, 5, 6	Topic 4: Forces 1. Newton's First Law 2. Newton's Second Law 3. Newton's Third Law
8	Topic 5: Energy 1. Nature of energy 2. Energy transformations 3. Sources of energy

Second Semester

Chapter	Торіс
8, 7	Topic 6: Machines 1. Work and Power 2. Using machines 3. Simple machines 4. Momentum
25	Topic 7: Waves 1. Nature of waves 2. Types of Waves 3. Wave properties 4. Wave Behavior
26	Topic 8: Sound 1. Sound waves 2. Music 3. Beats 4. Reverberation 5. Hearing
27–31	Topic 9: Light – Mirrors and Lenses 1. Light and Matter 2. Reflection and Mirrors 3. Refraction and Lenses 4. Total internal reflection 5. Using mirrors and Lenses
27	Topic 10: Electromagnetic Radiation 1. Nature of electromagnetic waves 2. The Electromagnetic Spectrum 3. Parts of the Electromagnetic spectrum 4. Using Electromagnetic Waves: Telecommunications
21, 22	Topic 11: Heat 1. Heat and Specific Heat 2. Thermal Energy 3. Heat Transfer 4. Heat Engines
19	Topic 12: Fluids 1. Pressure 2. Floating 3. Work with fluids