

- Jan 23: Chapters 13 and 14, Fluid Mechanics and Simple Harmonic Motion
Lab 1: Hooke's Law and Simple Harmonic Motion
- Jan 30: Chapter 15, Wave Motion, The Principle of Superposition
Lab 2: Standing Waves in Strings
- Feb 6: Chapter 16, Characteristics of Sound
Lab 3: Speed of Sound in Air
- Feb 13: Chapter 17 and 18, Temperature, Thermal Expansion, Gas Laws and Kinetic Theory
Lab 4: Linear Coefficient of Expansion
- Feb 20: No class
- Feb 27: First Exam on Chapters 13,14,15&16. Chapter 19, Calorimetry and Heat Transfer
Lab 5: Specific Heat of Solids
- Mar 5: Chapter 19, First Law of Thermodynamics
Lab 6: Latent Heat of Fusion
- Mar 12: Chapter 20, Second Law of Thermodynamics
Lab 7: Latent Heat of Vaporization
- Mar 19: No class
- Mar 26: Second Exam on Chapters 17,18, 19, &20. Chapter 21, Charge and Electric Field
Lab 8: The Electrostatic Field
- Apr 2: Chapters 21,22,23, Electric Charge, Fields, Potential, and Gauss's Law, Ohm's Law
Lab 9: Ohm's Law Laboratory Procedure
- Apr 9: Chapters 24, 25, 26, Capacitance, Resistance, Series and Parallel Resistances
Lab 10: Measuring Resistances in Circuits and the RC Circuit
- Apr 16: Chapter 25,26, DC Circuits and Kirchhoff's Rules
Lab 11: Experimentally and analytically applying Kirchhoff's Rules to a Circuit
- Apr 23: Third Exam on Chapters 21, 23, 24, 25 ,26. Chapters 27, 28 Magnetism
Lab 12: Magnetic Field of a Current and the Magnetic Field Balance
- Apr 30: Chapters 29, 30, Electromagnetic Induction, Inductance and Faraday's Law
Lab 13: The RC and RCL Circuits with varying frequency source
- May 7: Chapters 30, 31, 32 and 34, Topics about Electromagnetic Waves
Lab 14: Young's Experiment
- May 14: Fourth Exam, Chapters 27, 28, 29, 30, 31

Course Grading will be 25% Laboratory Work and 75 % Exam scores.

Laboratory Reports will be due the week following the lab exercise; there will also be a one week grace period for full credit. Any lab reports that do not meet this requirement will not be accepted or graded; in other words, any student failing to meet this requirement on any lab report will receive a zero for that report.

Each week homework will be assigned and some of these assignments will be collected to assess how well the student is comprehending the concepts of Physics 222. These assignments will not be graded nor participate in the course grade; however, they are intended to help the student identify any weaknesses in their understanding and to provide a basis from which to ask questions for clarification.