



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: General Physics I w/Calculus
Course Number: PHY221

Required Materials

Textbook(s): Physics for Scientists and Engineers with Modern Physics, Serway and Jewett, 10th Edition; Cengage Learning (Chapters 1-22)
Required Readings: None
Additional Materials: Webassign access kit (bundled with new text); General Physics I Laboratory Manual, 2.3.0; Stark State College, 2024; Blackboard –Learning Management System

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

16 Week Calendar

Week	Chapter/Lab
1	Chapter 1, 2 Lab: Derivatives and Error Analysis:1
2	Chapter 3, 4 Measurements and Uncertainty: 2
3	Chapter 5, 6 Kinematics: 3
4	Exam I, Chapter 7 Newton's Laws: 4
5	Chapter 8, 9 Free Fall: 5
6	Chapter 9, 10 Friction: 6
7	Exam II, Chapter 11 Energy: 7
8	Chapter 12, 13 Momentum: 8
9	Chapter 13, 14

Week	Chapter/Lab
	Review
10	Exam III, Chapter 15 Buoyancy: 10
11	Chapter 15, 16 Simple Harmonic Motion: 11
12	Chapter 16, 17 Review
13	Exam IV, Chapter 18 Thermal Expansion: 13
14	Chapter 19, 20 Heat: 14
15	Chapter 20, 21 Review
16	FINAL EXAM