

Calallen ISD 2025-2026

Syllabus - PAC Physics

Campus: Calallen High School

Course and/or Grade Level: Physics, 9-12

Course Description: In Physics, students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics at an advanced level that include: laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation. By the end of Grade 12, students are expected to gain sufficient knowledge of the scientific and engineering practices across the disciplines of science to make informed decisions using critical thinking and scientific problem solving.

Semester 1: August 13 – December 19, 2025

1st Quarter Topics	2nd Quarter Topics
• Unit 01: Kinematics in One Dimension and Graphing Motion • Unit 02: Newton's Laws of Motion	• Unit 02: Newton's Laws of Motion • Unit 03: Two-Dimensional Motion • Unit 04: Energy

Semester 2: January 5 – May 29, 2026

3rd Quarter Topics	4th Quarter Topics
• Unit 05: Momentum • Unit 06: Electrical and Magnetic Forces and Fields • Unit 07: Current Electricity	• Unit 07: Current Electricity • Unit 08: Characteristics of Waves • Unit 09: Behavior of Waves • Unit 10: Applications of Electromagnetic Waves and Quantum Phenomena

**Minor adjustment to the schedule may be made based on campus schedules and student needs.*