

CFISD Advanced Placement Physics C

Scope and Sequence 2024-2025

Course Description:

AP Physics C is a second year physics course. In AP Physics C, students will explore the laws that govern the world around them in even more depth and with more emphasis on mathematics. Students will study principles of mechanics, electricity, and magnetism. Considerable emphasis is placed on laboratory investigations. AP Physics C is the equivalent to the first and second courses in an introductory college course sequence in calculus-based physics.

College Board Advanced Placement Standards:

AP Physics C [Mechanics](#) and [Electricity & Magnetism](#)

Instructional Units	Days*	Start Dates	End Dates
First Semester	81	8/19/2024	12/20/2024
1st Grading Period (8/19/2024 - 10/18/2024)			
Unit 1: Kinematics	10	8/19/2024	8/30/2024
Unit 2: Force and Translational Dynamics	15	9/3/2024	9/23/2024
Unit 3: Work, Energy, and Power	13	9/24/2024	10/10/2024
2nd Grading Period (10/21/2024 - 12/20/2024)			
Unit 4: Linear Momentum	10	10/11/2024	10/25/2024
Unit 5: Torque and Rotation	10	10/28/2024	11/12/2024
Unit 6: Energy and Momentum of Rotating Systems	10	11/13/2024	12/3/2024
Unit 7: Oscillations	8	12/4/2024	12/13/2024
Finals Review and Exam	5	12/16/2024	12/20/2024
Second Semester	92	1/7/2025	5/29/2025
3rd Grading Period (01/07/2025 - 3/7/2025)			
Unit 9: Electrostatics & Electric Field	9	1/7/2025	1/17/2025
Unit 10: Gauss' Law	8	1/21/2025	1/30/2025
Unit 11: Electric Potential	8	1/31/2025	2/11/2025
Unit 12: Capacitance	8	2/12/2025	2/25/2025
Unit 13: Electric Current and DC/RC Circuits	9	2/26/2025	3/17/2025
4th Grading Period (03/17/2025 - 05/29/2025)			
Unit 14: Magnetic Fields and Forces	12	3/18/2025	4/2/2025
Unit 15: Induction & Inductance	11	4/3/2025	4/17/2025
Unit 16: AP Review & Exam	19	4/22/2025	5/16/2025
Finals Review & Exam	8	5/19/2025	5/29/2025

** The length of each unit is a specific number of days, but it is understood that there is a range of +/- two days. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Materials:

Principles & Practice of Physics

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