

AP Physics C (E&M)

Course	Dates	Schedule	Instructor
AP Physics C (E&M)	9/20/2026 - 5/2/2027	Sunday 7:00 PM – 8:30 PM	Mr. Kovalcin
Practice Test	3/21 - 5/2	Sunday 7:00 PM – 8:30 PM	
Off	10/4/2026, 10/11, 12/20, 12/27, 2/14/2027, 2/21, 2/28		

Course Description

#Classes	Sunday	Unit	APC Mechanics
1	20-Sep	12:1	Lab Activity - DC Circuits A-D Electric Currents and EMF's
2	27-Sep	12:2	Lab Activity - DC Circuits E-H Series and Parallel Circuits
3	18-Oct	12:3	Lab Activity - DC Circuits A-D Resistors in Series and Parallel
4	25-Oct	12:4	Lab Activity - DC Circuits M-P Resistance of Wires
5	1-Nov	12:5	Lab Activity - DC Circuits Q-T Power in Electric Circuits
6	8-Nov	12:6	Lab Activity - DC Circuits - Discharging Capacitors
7	15-Nov	12:7	Lab Activity - DC Circuits - Capacitors in Series/Parallel
8	22-Nov	11:A	Introduction to Electrostatics - Charging via Friction & Induction
9	29-Nov	11:A	Coulomb's Law & Electric Forces of Discrete Charge Distributions
10	6-Dec	11:A	Electric Fields of Discrete and Continuous Charge Distributions via Coulomb's Law - Calculus Application
11	13-Dec	11:A	Gauss' Law - Electric Fields produced by Spherical, Cylindrical and Planer Charge Distributions - Calculus Application
12	3-Jan	11:A	Introduction to Electric Potential - Discrete and Continuous Charge Distributions - Calculus Application
13	10-Jan	11:A	Capacitance by Design - Calculus ApplicationEnergy Functions

14	17-Jan	11:A	Introduction to the fundamental causes of Magnetic Forces and Fields - Magnetism in Matter
15	24-Jan	11:B	Magnetic Forces on Moving Charges and Current Carrying Wires
16	31-Jan	11:B	Calculating Magnetic Fields via Biot-Savart Law - Calculus Application
17	7-Feb	11:B	Calculating Magnetic Fields via Ampere's Law - Calculus Application - Lab Activity
18	7-Mar	11:B	Determining Magnetic Flux and Magnetic Inductance - Faraday's Law/Lenz's Law - Calculus Application
19	14-Mar	11:B	Magnetic Inductors and Capacitors in Electric Circuits - Calculus Application
20	21-Mar	APC - #1	APC Mechanics - Exam Practice & Review
21	28-Mar	APC - #2	APC Mechanics - Exam Practice & Review
22	4-Apr	APC - #3	APC Mechanics - Exam Practice & Review
23	11-Apr	APC - #4	APC Mechanics - Exam Practice & Review
24	18-Apr	APC - #5	APC Mechanics - Exam Practice & Review
25	25-Apr	APC - #6	APC Mechanics - Exam Practice & Review
26	2-May	APC - #7	APC Mechanics - Exam Practice & Review
	5-May		APC E&M Exam - Session 2 - Afternoon

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Teacher Profile

Mr. Kovalcin

Physics



Mr. Kovalcin, a physics enthusiast, has coached many students [one of which is currently the Department of Engineering Dean at Princeton] on

the US Olympiad team and has contributed to a physics textbook. He has taught classroom physics for over 41 years at various institutions, including the Monmouth County Science and Engineering Center at Manalapan High School. His extensive experience includes teaching AP Physics 1, 2, C: Mechanics, and C: Electricity and Magnetism, as well as Honors and Olympiad Physics. In addition, he has been tutoring physics online for 13 years. Additionally, he coached the Manalapan High School Physics team to first place in the National Science League. Mr. Kovalcin's classes feature engaging laboratory experiments and demonstrations, and he is known for clearly explaining difficult concepts, specifically the origins and applications of the laws of physics.