

AP Physics C Cycle Overview

Semester 2: 2024

| Unit | Objectives | Day | Date | Cycle | Description | Pages | |
|------|--|--------|--|-----------|--|---------------|--|
| 9 | Electrostatics; forces, fields, Gauss' Law | Wed | 1/3/24 | A (14) | Electrostatics, Electric field of a point charge | 9.1 - 9.8 | |
| | | Thu | 1/4/24 | B | | | |
| | | Fri | 1/5/24 | C | | | |
| | | Mon | 1/6/24 | D | Electric field of a continuous charge distribution | 9.8 - 9.13 | |
| | | Tue | 1/9/24 | E | | | |
| | | Wed | 1/10/24 | F | Flux, Gauss' Law | 9.14 - 9.18 | |
| | | Thu | 1/11/24 | A (15) | Gauss' Law examples, Conductors and Insulators | 9.19 - 9.24 | |
| | | Fri | 1/12/24 | B | | | |
| | | Mon | 1/15/24 | | Martin Luther King Jr Day | | |
| | | Tue | 1/16/24 | C | Unit 9 practice test | 9.25 - 9.29 | |
| Wed | 1/17/24 | D | | | | | |
| 10 | Electric potential energy and electric potential | Thu | 1/18/24 | E | Electric Potential | 10.1 - 10.7 | |
| | | Fri | 1/19/24 | F | | | |
| | | Mon | 1/22/24 | A (16) | Equipotentials, Conductors | 10.8 - 10.13 | |
| | | Tue | 1/23/24 | B | | | |
| | | Wed | 1/24/24 | C | U of a System of Charges, Electrostatic Problems | 10.14 - 10.19 | |
| | | Thu | 1/25/24 | D | | | |
| | | Fri | 1/26/24 | E | Unit 10 Practice Test | 10.20 - 10.23 | |
| | | Mon | 1/29/24 | F | Group practice for both unit 9 and 10 | | |
| | | Tue | 1/30/24 | A (17) | Unit 9 and 10 test, start unit 11 | 11.1-11.3 | |
| Wed | 1/31/24 | B | | | | | |
| 11 | Capacitance and capacitors | Thu | 2/1/24 | C | Capacitors, Energy Density, Energy stored in a capacitor | 11.4 - 11.8 | |
| | | Fri | 2/2/24 | | Carnival | | |
| | | Mon | 2/5/24 | | | | |
| | | Tue | 2/6/24 | | | | |
| | | Wed | 2/7/24 | D | | | |
| | | Thu | 2/8/24 | E | F=ma Exam (first 75 minutes of class) Dielectrics | 11.9 - 11.11 | |
| | | Fri | 2/9/24 | F | | | |
| | | Mon | 2/12/24 | A (18) | Capacitance Problems | 11.12 - 11.17 | |
| | | Tue | 2/13/24 | B | | | |
| | | Wed | 2/14/24 | C | Capacitor Lab | Lab | |
| | | Thu | 2/15/24 | D | | | |
| | | Fri | 2/16/24 | E | Unit 11 Practice Test for 45 min, work on lab after | 11.18 - 11.22 | |
| | | Mon | 2/19/24 | | President's Day | | |
| | | Tue | 2/20/24 | F | Unit 11 Practice Test for 45 min, work on lab after | 11.18 - 11.22 | |
| Wed | 2/21/24 | A (19) | Review unit 11, complete lab, start 12: current, drift velocity, resistivity | lab, 12.4 | | | |
| Thu | 2/22/24 | B | | | | | |
| 12 | Current and resistance | Fri | 2/23/24 | C | Resistance, Ohm's Law LAB DUE | 12.5 - 12.10 | |
| | | Mon | 2/26/24 | D | Unit 11 and 12 Test | none | |
| | | Tue | 2/27/24 | E | | | |
| | | Wed | 2/28/24 | F | | | |
| | | Thu | 2/29/24 | A (20) | Electric circuits, resistor combinations, batteries | 13.1 - 13.5 | |
| Fri | 3/1/24 | B | | | | | |
| 13 | Electric circuits | Mon | 3/4/24 | C | Multiloop circuits, Kirchoff's rules | 13.6 - 13.10 | |
| | | Tue | 3/5/24 | D | | | |
| | | Wed | 3/6/24 | E | RC circuits | 13.11 - 13.17 | |
| | | Thu | 3/7/24 | F | | | |
| | | Fri | 3/8/24 | A (21) | Unit 13 practice test | 13.18 - 13.24 | |
| | | Mon | 3/11/24 | B | | | |
| | | Tue | 3/12/24 | C | Unit 13 Test, Special Relativity and Magnetism | 14.1 - 14.2 | |
| | | Wed | 3/13/24 | D | | | |
| | | Thu | 3/14/24 | E | Kirchoff's rules minilab | none | |
| | | Fri | 3/15/24 | | Academy Spring Day | | |
| Mon | 3/18/24 | | Particle Physics! | | | | |

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|------------------|---------------------------|--------|--------------------------|-------------------------------|---|---------------------------------|
| | | Tue | 3/19/24 | | Spring Break Optional: work through unit 14 for extra credit quiz after break Recommended: around 3 hours of work | |
| | | Wed | 3/20/24 | | | |
| | | Thu | 3/21/24 | | | |
| | | Fri | 3/22/24 | | | |
| | | Mon | 3/25/24 | | | |
| | | Tue | 3/26/24 | | | |
| | | Wed | 3/27/24 | | | |
| | | Thu | 3/28/24 | | | |
| | | Fri | 3/29/24 | | | |
| | | Mon | 4/1/24 | F | Kirchoff's rules minilab | review 14 |
| 14 | Magnetic fields | Tue | 4/2/24 | A (22) | Group review of unit 14 | none |
| | | Wed | 4/3/24 | B | Extra credit test of unit 14 (3/3 or 60/60, 100%) | |
| 15 | Ampere's Law | Thu | 4/4/24 | C | Review test, start unit 15 | 15.1 - 15.3 |
| | | Fri | 4/5/24 | D | | |
| | | Mon | 4/8/24 | E | Magnetic fields due to current, Biot-Savart Law, Ampere's Law | 15.3 - 15.7 |
| | | Tue | 4/9/24 | F | | |
| | | Wed | 4/10/24 | A (23) | Ampere's Law Examples | 15.8 - 15.12 |
| | | Thu | 4/11/24 | B | | |
| | | Fri | 4/12/24 | C | Unit 15 Practice Test | 15.13 - 15.18 |
| | | Mon | 4/15/24 | D | | |
| 16 | Induction / Faraday's Law | Tue | 4/16/24 | E | Faraday's Law of Induction, Lenz's Law | 16.1 - 16.8 |
| | | Wed | 4/17/24 | F | | |
| | | Thu | 4/18/24 | A (24) | Inductance, LR Circuits, LC Circuits | 16.9 - 16.15 |
| | | Fri | 4/19/24 | B | | |
| | | Mon | 4/22/24 | C | 16 Practice Test, 15 & 16 Group Test | 16.16 - 16.20 |
| | | Tue | 4/23/24 | D | | |
| | | Wed | 4/24/24 | E | Review 15/16 test | Review Sem 1 |
| Thu | 4/25/24 | F | Start review for AP exam | | | |
| | Review | Fri | 4/26/24 | | Intermission Day | |
| MR | Mechanics Review | Mon | 4/29/24 | A (25) | Review Mechanics | Review Sem 1 |
| | | Tue | 4/30/24 | B | | |
| | | Wed | 5/1/24 | C | Mechanics mock exam (MC + FR) for credit | Review Sem 2 |
| | | Thu | 5/2/24 | D | Choose 2 out of 3 FR to complete | |
| | | Fri | 5/3/24 | E | Review E & M | Review Sem 2 |
| EM | E & M Review | Mon | 5/6/24 | F | | |
| | | Tue | 5/7/24 | A (26) | E&M mock exam (MC + FR) for credit | Review all packets AP Classroom |
| | | Wed | 5/8/24 | B | Choose 2 out of 3 FR to complete | |
| | | Thu | 5/9/24 | C | Review mock exams, general review | |
| | | Fri | 5/10/24 | D | | |
| | | Mon | 5/13/24 | E | No class, Calculus AP | |
| AP EXAM | | Tue | 5/14/24 | F | AP Physics C Exams - both in the afternoon. | Relax! |
| Congratulations! | | Wed | 5/15/24 | A (27) | | |
| | | Thu | 5/16/24 | B | | |
| | | Fri | 5/17/24 | C | | |
| | | Mon | 5/20/24 | D | | |
| | | Tue | 5/21/24 | E | Last Class! Attendance is mandatory. Reflections, class survey, review of the AP test | |
| | | Wed | 5/22/24 | F | | |
| | | Thu | 5/23/24 | A | | |
| | | Fri | 5/24/24 | B | | |
| | | Mon | 5/27/24 | | Memorial Day | |
| | | Tue | 5/28/24 | | Exams: no exam in this class | |
| | | Wed | 5/29/24 | | Exams: no exam in this class | |
| | | Thu | 5/30/24 | | Exams: no exam in this class | |
| | SAT | 6/1/24 | | Graduation - Congratulations! | | |