

AP PHYSICS 2 for New and Experienced Teachers

Instructor: Stephen Schuh

Day 1 (6.75 contact hours)

- Introductions
 - Experience & Expectations
 - AP Frameworks
 - Project Planning & Assignment
- Graduate Credit
- Curriculum Overview
 - History of the AP Physics 1 Rewrite
 - New AP Physics Curriculum
 - AP Problem Styles
 - Multiple Choice
 - Free Response
- Intro to AP Inquiry-based Labs

Day 2 (8 contact hours)

- Administrative Approaches
 - AP Audit Tutorial
 - AP Equity
 - Course Recruitment
- Topic – Fluid Dynamics (can be replaced by other topic at participant request)
 - Statics (Pascals/Archimedes)
 - Dynamics (Bernoulli's/Continuity)
- Direct Inquiry Labs
 - Thermodynamics
 - Fluids
- Course Planning
 - Big Idea Approaches
 - Course Syllabi
 - Test Planning
- Participant Led Sharing
 - Lecture Approaches
 - Demonstrations
 - Laboratory Ideas

Day 3 (8 contact hours)

- Pacing
 - Recursive Pedagogy
 - Math vs Concept
 - Demo vs Explanation
- Topic - RC Circuits (can be replaced by other topic at participant request)
 - Ohm's Law
 - Parallel & Series
 - Energy & Power
 - Predictive Circuit Lab
 - Capacitors (Steady-state/Transient)
- Open Inquiry Labs
 - Circuits
 - Optics
- AP Problem Building
 - Styles & History
 - Test/Rubric Reviews
 - Self-Led Investigation
 - Short Answer
 - Exploratory Answer

Day 4 (7.25 contact hours)

- Test Construction
 - Free Response
 - Multiple Choice
- Teacher Resources
 - Problems
 - Texts
 - Labs
- AP Exercise Construction and In-class Project(s)

GRADUATE CREDIT REQUIREMENTS (13-19 hours)

- Daily Workshop "Homework" (AP style questions, etc) (60-90 min each day) x3
- Daily Workshop Activities (AP style rubrics, etc) (60-90 min each day) x3
- Collegeboard Syllabus Creation (3-4 hours)
- AP-style curriculum development (3-4 hours)
- Inquiry Lab Creation (1-2 hours)