

**WV Advanced Placement Summer Institute: Physics 1**  
**June 26 – 29, 2018, University High School, Morgantown, WV**  
**Instructor: Deborah Ormond**

This AP Summer Institute Workshop is designed for both beginning and experienced teachers of the AP Physics 1 course. Explicit incorporation of science practices in the new curriculum requires development of activities, assessments, and laboratory strategies that engage students in acting and thinking like scientists. Examples of the revised exam and student responses will be reviewed to identify strategies to effectively prepare students for the AP Physics 1 exam. This institute will be collaborative in nature, and focused on the practical aspects of teaching the new course. Please come prepared to share ideas and best practices based on your own teaching experiences.

**Tuesday, June 26 8:00 – 4:30 PM**

- Introductions and expectations
- In-Depth look at the AP Physics 1 Course Description
- Audit Requirements and Course Planning
- Review of the Physics 1 Exam Format
- Inquiry Lab Activity: graphing, kinematics

**Wednesday, June 27 8:00 – 4:30 PM**

- Practice Exam Analysis
- Formative Assessments
- Teaching and Assessing the Science Practices
- Technology and other Resources
- Inquiry Lab Activity: dynamics, circular motion, gravitation, DC circuits

**Thursday, June 28 8:00 – 4:30 PM**

- The AP Reading
- Scoring Sample Student Free Response Questions
- Inquiry Lab Activities: energy, momentum, SHM, waves and sound
- Review of Rotational Motion Curriculum Module

**Friday, June 29 8:00 – 2:30 PM**

- Inquiry Lab Activities: torque, rotational motion
- Inclusion, Equity, and Access
- Participant Presentations
- Concluding questions and concerns
- Workshop Evaluation

**Graduate Credit:**

Those seeking graduate credit must complete an additional 15 hours. To complete the additional hours, participants must create a complete instructional unit including lesson plans, laboratory activities, and both formative and summative assessments. More information will be provided on the first day of the institute.