



# *John H. Reagan High School*

*Enabling our students to realize great heights*

713-861-5694  
www.jhreagan.org

## Physics Course Syllabus 2009 – 2010

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Instructor: Dr. Daponte    Email: [tdaponte@houstonisd.org](mailto:tdaponte@houstonisd.org)    Room# 241

Tutorials: Before school as arranged    Conference: 3<sup>rd</sup> Period

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### **Course Overview**

This course is a comprehensive survey of physics, integrating the history, theory, experimentation and application of the discipline. Emphasis is placed on solving problems through practical applications and laboratory work. Physics at John H. Reagan High School is intended for students who have an interest in science and will provide for a thorough preparation for most college physics courses.

### **General Expectations**

Students will participate in an applications based physics course.

### **Required Texts/Materials**

The textbook will be supplemented by appropriate course materials.

### **Course Outline**

#### First Semester

1. review of math skills
2. Mechanics
3. Kinematics
  - Velocity
  - Acceleration
  - Vectors
4. Dynamics
  - Newtonian Motion
  - Projectile Motion
  - Gravitation
5. Work and Energy
  - Machines
  - Power

#### Second Semester

1. Mechanics
  - Momentum
  - Angular Momentum
2. Thermodynamics
  - Thermal energy

- Temperature
- 3. Waves
- 4. Sound
- 5. Electromagnetism
  - Static and current electricity
  - Circuits
  - Magnetic fields and forces
  - Optics

### **Grading**

Grading will be determined in accordance with HISD and Reagan High School policy.

A notebook/collection/ portfolio is required for the first and second semester. This is a complete collection of all graded work for the semester. The notebook will count as a major test for the last grading period of each semester. The notebooks are due on or before the day of the final exam.