**Physical Science**

**Course Prerequisite:**

Pre-requisite: None (9th grade and up)

1. **Introduction:**

**Physical science is a lecture and laboratory oriented course designed to further enhance a student’s understanding of an ever-changing world. This course integrates the disciplines of physics and chemistry with emphasis placed on high order thinking skills using online activities, laboratory investigations, and problem solving activities.**

**General Objectives:**

1. **1. Students study a variety of topics that include:**
   * 1. **Introduction to Physical Science**
     2. **Properties and Classification of Matter**
     3. **Atomic Structures**
     4. **Periodic Laws and Relationships**
     5. **Chemical Bonds and Reactions**
     6. **Solution Chemistry and Acids and Bases**
     7. **Carbon Chemistry**
     8. **Nuclear Chemistry**
     9. **Motion**
     10. **Force**
     11. **Force in Fluid**
     12. **Work, Power and Simple Machines**
     13. **Heat and Energy**
     14. **Electric Charges and Currents**
     15. **Magnetism**
     16. **Waves: Sound and Light**
2. **Textbook used:**

**Physical Science: concepts in Action, Pearson, 2011.**

1. **Grading Scale:**

**25% homework,  25% labs,  25% Test,   25% quiz**

1. **Supplies needed**

**pen/paper, notebook, spiral notebook for lab reports, Scientific calculator, flash drive**