

## Physics Heat, Sound, Light—PHY 115

**Class meeting Times:** Fall 2009, Friday 8:00 Am-9:50 AM in Room B-208

**Instructor:** Professor Gary Adams

**Course Description:** This lab is part of the class for Physics 115

**Learning Outcomes:** In this course the student will learn to set up and perform physics experiments, write a complete lab report, make measurements and use approximate numbers correctly.

**Required Text:** On line lab manual ( [trccphysic.com/hslab/hslabmanual.doc](http://trccphysic.com/hslab/hslabmanual.doc))

**Methods of Evaluation and Grading:** Grades are based on the lab reports according to the following scheme:

| Grades     |    |  |
|------------|----|--|
| On time    | 1  |  |
| Appearance | 2  |  |
| Results    | 2  |  |
| Units      | 2  |  |
| Numbers    | 1  |  |
| Discussion | 2  |  |
| Total      | 10 |  |

### Lab Experiments:

Linear Coefficient of Expansion

Lab Report Template for Word

Linear Expansion

Volumetric Expansion

Specific Heat of a Metal

Heat of Fusion

Heat of Vaporization

Simple Pendulum and Harmonic Motion

Simple Harmonic Motion and Hooke's Law

Standing Waves in Vibrating Strings

Speed of Sound

Refractive Index

Thin Lenses

Diffraction Grating

Speed of Light

**Academic Integrity:** The effective operation of any organization is dependent on the honesty and goodwill of its members. In an organization devoted to the pursuit of knowledge, acting with integrity is essential to effective teaching and learning. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. To emphasize the importance of academic integrity, Three Rivers Community College adheres to the following policy in addition to the Student Discipline Policy, sections 2:10 and 3:1-10, as provided by the Board of Trustees of Connecticut Community Colleges. Since collaboration is central to the learning community, Three Rivers wishes to emphasize that this policy is not intended to discourage collaboration when appropriate, approved, and disclosed.

**Student Disability Policy:** Students with a documented **disability** are provided supportive service and accommodations to assist them with their academic objectives. Services are strictly confidential. **Disability** services may include individualized accommodations, advising, advocacy, counseling, technical assistant and referral information

