

COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: PHYS 1415

Course Title: Physical Science I

Course Description: Investigation of everyday phenomena of the physical world, which helps students to achieve a well-grounded understanding of selected science concepts as well as the skills that enable and encourage rational independent thinking. Lab required.

Course Credit Hours: 4

Lecture Hours: 3

Lab Hours: 3

Prerequisite: Meet TSI standard for MATH 0310, and TSI college-readiness standard for Reading; or equivalent

Student Learning Outcomes: Upon successful completion of this course, students should be able to do the following:

1. Solve problems involving basic units of measurement and their relationships
2. Explain the theories of force, motion, work and energy (Critical Thinking and Communication Skills)
3. Explain the theory of temperature and heat
4. Solve problems involving mechanical and optical waves
5. Explain the theory of electricity and magnetism
6. Explain concepts in atomic and nuclear physics
7. Solve problems involving chemical elements and bonding

Withdrawal Policy: See the current *Collin Registration Guide* for last day to withdraw.

Collin College Academic Policies: See the current *Collin Student Handbook*.

Americans with Disabilities Act Statement: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.