

## COLLIN COLLEGE

### COURSE SYLLABUS

Course Information
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**Course Number:** PHYS 1417

**Course Title:** Physical Science II

**Course Description:** Investigation of topics in physics, chemistry, geology, and meteorology in the context of a one-semester astronomy course. Topics will include: Celestial measurement of time, calendars, and seasons; geology and meteorology of the Earth, Moon, and planets; Chemistry and physics of stars and galaxies; and the interdisciplinary question of life beyond Earth. Laboratory exercises and night observations combine to enhance lecture material. 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. Explain celestial motions as related to the keeping of time and marking of the seasons
2. Explain the meaning of atomic and molecular spectra
3. Discuss the geological features of Earth and the other terrestrial planets (Critical Thinking and Communication Skills)
4. Discuss the meteorology of Earth and other planetary atmospheres in the solar system
5. Discuss the chemistry and physics of stellar energy and evolution
6. Explain the basic morphologies of galaxies
7. Discuss the science behind the search for life beyond Earth

**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.