

PHYSICAL SCIENCE

Faculty

Part-Time

Dale Synnes

Physical Science Courses

PHSC R100L—Computer-Assisted Laboratory **1 unit**

Prerequisites: MATH R014.

3 hours lab weekly

This course is meant to serve as a computer supplement to any 100-level physical science class. The student uses the computer as a tool, allowing access to software relevant to the class currently being taken. The student may become involved in drill work, projects, exercises, math or science games, or other training activities. This class affords students an opportunity to deepen their knowledge to an extent not possible in the regularly allotted class time. Materials fee is required. Course may be taken four times. This course does not satisfy the laboratory science requirement for the AA/AS degree. (Same as MATH R100L)

Transfer credit: CSU

PHSC R170—Concepts in Physical Science **4 units**

Prerequisites: MATH R014.

3 hours lecture, 3 hours lab weekly

This introductory course focuses on principles, laws, and concepts in physics and chemistry. Students model scientific reasoning and experimentation processes: questioning, forming hypotheses, testing hypotheses experimentally, and performing analysis and additional questioning that lead to further experimentation. The laboratory includes an introduction to microcomputer-based data acquisition. Lab activities are closely sequenced with the lecture topics, which include motion, forces, energy, momentum, heat, electricity and magnetism, light and spectrometry, radioactivity, acids and bases, and reactions and rates. The course incorporates current knowledge of science teaching and concept development. It is aimed at current and prospective teachers, or anyone desiring to acquire basic literacy in physical science. Field trips may be required. (2)

Transfer credit: CSU.