

# PHYSICAL SCIENCE

## Faculty

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### Part-Time

Dale Synnes

## Physical Science Courses

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### **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: UC, CSU*