

# SCIENCE EDUCATION (SCED)

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SCED 4004 - Elementary and Middle School Science Methods (3 Credits)

This course explores the teaching of science to elementary and middle school students. We will engage in science learning, teaching, and reflection utilizing a variety of resources as we explore the nature of planning, implementing, and executing effective science instruction.

Cross-listed with SCED 5004. Restriction: Professional Year Admission required. Max Hours: 3 Credits.

Grading Basis: Letter Grade

Restricted to students with Professional Year Admission (ECED-LICU or ENLA-LICU or ELED-LICU or WLFR-LICU or WLSP-LICU or MTHS-LICU or MSMA-LICU or SCIS-LICU, or EDHD-BA-GSI or EDHD-BA-OSC or SPED-LICU or SOST-LICU).

SCED 4050 - Introduction to Science Teaching and Learning (2 Credits)

Focus on conceptual development, conceptual change, collaborative learning, students' conceptions of various topics in science, practical issues encountered in facilitating learning, managing the classroom, formative and summative assessment, and differentiating instruction in a collaborative environment. Seminar for Learning Assistants. Student must be serving as a Learning Assistant in the CU Denver LA program.

Max hours: 2 Credits.

Grading Basis: Letter Grade

SCED 4340 - Equity & Culture in Science Education: Local/Global (3 Credits)

This course examines literature in science education related to issues of culture and equity. Topics will be framed by an understanding of equity in diverse classrooms and how it informs research, curriculum and instruction. Cross-listed with SCED 5340 and ENVS 5340. Max hours: 3 Credits.

Grading Basis: Letter Grade

SCED 4350 - Issues and Trends in Science Education (3 Credits)

Explores the current issues and trends in science education related to theory, pedagogy, practices, curriculum, and other contemporary topics.

Cross-listed with SCED 5350. Max hours: 3 Credits.

Grading Basis: Letter Grade