

SCIENCE EDUCATION (SCE)

SCE 4310 - Science Methods (3 Credits)

Focuses on instructional planning, assessment, and teaching strategies to support effective science and health education in elementary classrooms. Emphasizes evidence-based practices that promote scientific understanding and student engagement.

Prerequisite(s): EDG 3323 (may be taken concurrently) and EDF 4112 (may be taken concurrently)

Attribute(s): SUSC - Sustainability Component

SCE 4330 - Science Methods 6-12 Grades (3 Credits)

Techniques and materials of instruction in secondary school sciences.

Attribute(s): ENVE - Envir.Stud.Elect.Pathway

SCE 4936 - Senior Seminar: Science Ed (3 Credits)

Capstone course taken concurrently with the final internship. Trends and issues within the field of secondary education are examined from the perspective of the final internship experience.

Prerequisite(s): SCE 4941

Corequisite(s): SCE 4940

SCE 4940 - Internship Science Education (9 Credits)

Provides a supervised final internship where candidates refine and demonstrate effective instructional and classroom management practices. Emphasizes full participation in the teacher role in school or agency-based placements.

Prerequisite(s): SCE 4941

Corequisite(s): EDG 4937

Attribute(s): WBLI - Work based learning indicator

SCE 4941 - Integr Field Exper. Science (3 Credits)

Provides a supervised field experience in a science education setting where candidates observe instruction and begin to demonstrate effective teaching practices. Emphasizes the gradual assumption of instructional responsibilities in school-based placements.

Prerequisite(s): SCE 4330 and EDF 3253 and RED 4350

Corequisite(s): TSL 4340

Attribute(s): WBLI - Work based learning indicator

SCE 5937 - Special Topics in Science Ed (1-4 Credits)

Special topics which can be repeated when topics are not duplicated.

SCE 6366 - Science Methods: 6-12 (3 Credits)

Techniques and materials of instruction for teaching science in middle school and senior high school, addressing strategies for teaching adolescents, curriculum adaptation for special needs students, adaptations for LEP learners, and current literature for teaching science. Special emphasis on state and national standards.

SCE 6455 - Trends in Science Instruction (3 Credits)

Students investigate the implications of current theory, research, and issues related to a topic of their choice in the field of science education and communicate their findings through appropriate web-based media.