

SCIENCE EDUCATION (SCED)

SCED 196. EXPERIMENTAL COURSE. 1-6 Credits.

Experimental.

SCED 390. SCIENCE TEACHING METHODS. 5 Credits.

Notes: designed for BAE Biology, Chemistry, Earth Science, Physics majors and minors as well as those seeking middle level science endorsement.

Pre-requisites: junior standing or permission of instructor.

Students study principles of teaching and learning in science disciplines, including assessment techniques, inquiry-based teaching, and laboratory safety. This course prepares students for teaching positions in science education and certification requirements by emphasizing a data-driven approach to teaching and learning.

SCED 391. MIDDLE LEVEL AND EARTH AND SPACE SCIENCE METHODS. 3 Credits.

Notes: This course is designed for students seeking an endorsement to teach middle school science and/or secondary earth and space science. Students must complete $\geq 70\%$ of program to enroll in this course.

Pre-requisites: SCED 390 or concurrent enrollment.

The course includes information and strategies for teaching the Next Generation Science Standards. Focus is on addressing commonly held misconceptions, as well as techniques and activities for teaching life, earth and space and physical sciences at the middle school level.

SCED 395. INTERNSHIP. 1-15 Credits.

Pre-requisites: permission of the instructor, department chair, and college dean.

SCED 396. EXPERIMENTAL COURSE. 1-6 Credits.

Experimental.

SCED 399. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair, and college dean.

SCED 490A. SCIENCE TEACHING CAPSTONE SEMINAR. 3 Credits.

Notes: must be taken concurrently with SCED 490B.

Pre-requisites: EDUC 341 and SCED 390.

Satisfies: a university graduation requirement-senior capstone (when completed with SCED 490B).

This seminar and dialogue course supports secondary science students in planning, implementing, and evaluating effective science teaching practices that align with Washington State standards.

SCED 490B. SCIENCE TEACHING CAPSTONE FIELD APPLICATION. 2 Credits.

Notes: must be taken concurrently with SCED 490A.

Pre-requisites: EDUC 341 and SCED 390.

Satisfies: a university graduation requirement-senior capstone (when completed with SCED 490A).

This field application course supports secondary science students in planning, implementing, and evaluating effective science teaching practices that align with Washington State standards.

SCED 499. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair, and college dean.