SCIENCE EDUCATION (SCED)

SCED 186. SCIENCE TEACHING THROUGH INQUIRY. 2 Credits.
Covers how people learn science through hands-on, inquiry-based teaching. Students explore evidence-based science teaching strategies, observe highly effective STEM teachers, and design short lessons for K–12 students. Students build communication and leadership skills while considering future pathways in science education and related fields.

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 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 423. REFLECTIONS ON SCIENCE TEACHING. 1 Credit.
Pre-requisites: SCED 490A.
Engages science education students in critically reflecting on their full-time student teaching experiences. Students participate in seminars, analyze student learning data, and reflect on their experiences teaching science. This seminar supports students as they plan, implement, and evaluate instruction in K-12 science classrooms.

SCED 490A. SCIENCE TEACHING CAPSTONE SEMINAR. 3 Credits.
Notes: must be taken concurrently with SCED 490B.
Pre-requisites: 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.