

# SCIENCE EDUCATION (SED)

## SED 200 FIELD EXPERIENCE IN SECONDARY SCIENCE EDUCATION

3, 2/2

Classroom and field experience designed to help students make a better-informed decision if they are contemplating a career in secondary science education. A 30-hour field component is required for each student. Offered occasionally. Equivalent Course: MED 200

## SED 307 TECHNIQUES FOR TEACHING LABORATORY ACTIVITIES IN THE SECONDARY SCIENCE CLASSROOM

3, 0/0

SED 307

Equivalent Course: MED 307

## SED 311 PROBLEM SOLVING IN PHYSICAL SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary preservice candidates. Investigation of the physical sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered alternate years.

## SED 312 PROBLEM SOLVING IN LIFE SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary pre-service candidates. Investigation of the life sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered alternate years.

## SED 313 PROBLEM SOLVING IN EARTH SCIENCE

3, 3/0

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Inquiry-based course for elementary pre-service candidates. Investigation of the earth sciences through problem solving, laboratory activities, simulations, and explorations. Option in elementary education science concentration. Offered fall semesters.

## SED 316 TEACHING READING IN THE SECOND LANGUAGE IN MIDDLE SCHOOLS

3, 3/0

SED 316

## SED 323 SCI AS INQUIRY

3, 3/0

The procedures of science as a search for knowledge of natural phenomena; comparison with other methods of inquiry; implications for nonscientists. Option in elementary education science concentration. Offered occasionally.

## SED 335 OUTDOOR SCIENCE EDUCATION

3, 2/2

Prerequisites: A college-level course in a science other than biology, or permission of instructor. Interdisciplinary approach to outdoor science education; basic concepts of natural history in classroom and field; extended field trips to the college camp. Offered occasionally.

## SED 445 LITERACY FOR TEACHING SCIENCE

3, 2/2

Prerequisites: Instructor permission. Study of literacy related to secondary science. Candidates will practice promotion of literacy, conduct an action research project on identifying literacy levels of students, and plan literacy activities based on data collection. Offered Every Semester.