

## **SCED 4000: Service Learning in Science Education**

### **1-3 Credit Hours**

*Prerequisite: 60 hours and permission of the instructor and department chair/program director.*

A community activity which links learning to life by connecting meaningful community service activities with academic learning, personal growth, and civic responsibility. Activity will be designed with the instructor and approved by the chair/program director.

## **SCED 4414: Methods of Teaching Secondary Science I**

### **2 Credit Hours**

*Prerequisite: EDUC 2130 and admission to Teacher Education Program*

*Corequisite: SCED 4424*

This course examines teachers, students, content, and interactions that lead students to develop conceptual understandings of science. Science teacher candidates design and implement instructional activities informed by understanding of science learning, then assess student learning. The co-requisite for this course is a 60 hour field experience as introduction to the adolescent learner, the equity imperative and science education reform.

## **SCED 4416: Methods of Teaching Secondary Science II**

### **3 Credit Hours**

*Prerequisite: SCED 4414*

*Corequisite: SCED 4426*

Teacher candidates will develop pedagogical content knowledge through the design and implementation of inquiry and project-based science lessons appropriate to secondary learners. Candidates will use available student data and research-based literature and theory to help guide their lesson planning. Candidates will critically reflect upon their teaching practice using videos, journals, and discussions. This course is restricted to participants in the secondary science education program.