

# SCE: Science Education Courses

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## Courses

### **SCE 3905 Directed Study**

School of Education, Department of Teaching, Leadership, & Res

1-12 sh (may be repeated indefinitely for credit)

### **SCE 4310 Teaching Science in Elementary Schools**

School of Education, Department of Teaching, Leadership, & Res

3 sh (may not be repeated for credit)

This course incorporates current research in science education to prepare prospective teachers to facilitate inquiry-oriented, standards-based science instruction in the elementary (K-6) classroom.

### **SCE 4320 Teaching Science in Middle and Secondary Schools**

School of Education, Department of Teaching, Leadership, & Res

3 sh (may not be repeated for credit)

Theory and methods of teaching science in the middle and secondary schools; explores current research on approaches in teaching and learning science; examines the practice of science, disciplinary core ideas in specific science disciplines of choice (i.e. Biology, Earth/Space, Chemistry, Physics), and crosscutting themes in science; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); Includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

### **SCE 4905 Directed Study**

School of Education, Department of Teaching, Leadership, & Res

1-12 sh (may be repeated indefinitely for credit)

### **SCE 6905 Directed Study**

School of Education, Department of Teaching, Leadership, & Res

1-12 sh (may be repeated indefinitely for credit)