



Adolescent & Young Adult Education Science

The Science program prepares students for licensure to teach science in grades 7-12. Five undergraduate majors are available.

Program Overview

The Science program offers licensure in five areas: Life Science; Life Science/Chemistry; Physical Science (Chemistry/Physics); Earth Science; and Integrated Science with four areas of emphasis: biology, chemistry, physics, or earth science. The Integrated Science licensure is currently the most marketable one as it prepares pre-service teachers to teach all science subjects, grades 7-12.

We encourage the use of hands-on, inquiry-based, student-centered pedagogy within our science methods classes. Students spend hundreds of hours in various field experiences, including a 12-week student teaching internship in a public school. Students have many opportunities to try out the techniques they learn in science teaching methods courses.

We also encourage undergraduates to participate early by attending and presenting at conferences within science education's many professional associations.

Course of Study

The Life Science, Life Science/Chemistry, Physical Science, and Earth Science degrees are four-year programs, while the Integrated Science degree is a five-year program. The number of credit hours a student must earn to receive a bachelor's degree in Science ranges from 133 to 148, depending on the student's major. The program consists of content area courses, as well as foundational and advanced education courses. Remaining courses include the Kent Core requirements, which provide the foundation of the University's mission to prepare students to live in today's complex, global society.

Faculty

Lisa Borgerding, Ph.D., Professor

Dr. Borgerding regularly presents and publishes on her research topics, which include the teaching and learning of evolution and the nature of science, as well as how state biology standards affect this teaching and learning.

The teacher education curriculum of the Science program is nationally recognized by the National Science Teachers Association and accredited by the National Council for Accreditation of Teacher Education (NCATE).

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