

# Independent Study - Science

Mehlville School District

Science

Grade 12, Duration 1 Year, 1 Credit

## Rationale

In a world filled with the products of scientific inquiry, scientific literacy is a necessity for everyone in order to use scientific information to make wise choices. Today, the job market demands advanced skills, requiring people to be able to learn new skills, use reason, think creatively, make decisions, and solve problems. An understanding of science and the processes of science contribute in an essential way to these skills.

## Course Description

This course gives the opportunity for the interested science student to plan, research, and develop an investigation in their area of interest. The student will be placed with another teacher that will serve as a mentor to the program. The student's grade will be determined upon by evaluation of his/her work ethic, responsibility, research, and the final product.

## Prerequisites

Prerequisite: Three years of science with supervising teacher and principal approval of project proposal.

Open to: 12

Credit: 1 Unit - Two Semesters (Science)

## Course Objectives

1. The student will analyze scientific works from others and apply the information with 80% accuracy. Locally assessed. (SC7, 8; 1.2, 1.4, 1.6, 1.7) (A+: Reading)
2. The student will gather information from many sources and write a paper which focuses on the application of this information to solve a scientific problem with 80% accuracy. Locally assessed. (SC7, 8; 1.1, 1.2, 1.8, 1.10, 2.1, 2.2, 2.8) (A+: Writing)
3. The student will orally present written research with 80% accuracy. Locally assessed. (SC7, 8; 1.8, 2.1) (A+: Speaking)
4. The student will research career opportunities in their field of interest and present their findings to others with 80% accuracy. Locally assessed. (SC7, 8; 1.4, 1.8, 1.10, 2.1, 2.6, 4.8) (A+: Research)

BOE 11-6-14