

## ESI Course Description

Environmental Science Issues is a specialization course in the CASE Program of Study. Students will complete hands-on activities, projects, and problems that simulate actual concepts and situations found in the environmental science field, allowing students to build content knowledge and technical skills. Students will investigate areas of environmental science including ecosystem management, sustainable agriculture, energy choices, and pollution.

Students will maintain a research level Laboratory Notebook throughout the course documenting their research and laboratory experiences. Issue analysis and experimental design will be highlighted as students develop and conduct environmental investigations.

In addition, students will explore connections between the Environmental Science Issues lessons, Supervised Agricultural Experience, and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating solutions to their peers and members of the professional community.

Environmental Science Issues includes the following units of study.

- Issue Analysis
- Biodiversity
- Energy, Technology, and Society
- Feeding the World
- Pollution
- ESI Research