

# SCIENCE LITERACY (SCIL)

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## SCIL 101 Science and Decision-Making for a Complex World

**Description:** Introduction to the scientific, social, economic, political and cultural dimensions of current issues related to food, energy, water, health and landscape systems. Accessing and evaluating popular and scientific media, and engaging in science-informed decision-making.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Prerequisite for:** SCIL 300

**ACE:** ACE 8 Civic/Ethics/Stewardship

## SCIL 101H Science and Decision-making for a Complex World

**Description:** Introduction to the scientific, social, economic, political and cultural dimensions of current issues related to food, energy, water, health and landscape systems. Accessing and evaluating popular and scientific media, and engaging in science-informed decision-making.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL

**ACE:** ACE 8 Civic/Ethics/Stewardship

## SCIL 109 Water in Society

**Crosslisted with:** AECN 109, NRES 109, ENVR 109, GEOG 109

**Description:** Introduction to the scientific, social, and economic dimensions of historical and contemporary water systems. Students will develop an understanding of hydrologic systems and analyze and engage in decision-making about complex challenges associated with water resource use.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Offered:** FALL

**Prerequisite for:** SCIL 300

**ACE:** ACE 4 Science ACE 8 Civic/Ethics/Stewardship

## SCIL 300 Experiential Learning in Food, Energy and Water Systems I

**Prerequisites:** 9 hours of coursework towards the Food, Energy and Water in Society Minor

**Description:** First-hand discovery of knowledge through active learning experiences that are designed to complement the students' in-class learning. Students will be placed in a relevant educational environment (K-12, formal, informal, public, etc.) under the supervision of an experienced educator. This experience focuses on application of knowledge and skills learned in previous courses associated with the minor to support others' lifelong learning about the interconnectedness of food, energy, and/or water systems.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

## SCIL 400 Experiential Learning in Food, Energy and Water Systems II

**Crosslisted with:** SCIL 800

**Prerequisites:** 15 hours of coursework towards the Food, Energy, and Water in Society Minor including SCIL 300 (at the 400 level) or 12 hours of graduate coursework (at the 800 level).

**Description:** A multifaceted experience that serves as a culminating academic and intellectual experience for students. Students will complete an internship or a research project in an approved professional or academic setting that will provide them with a challenging and engaging experience. As part of this experience, students will cater knowledge and skills from the minor as appropriate for a professional career, begin to build a network for support and future employment, and clarify individual professional goals and strategies for career development. The experience will culminate in the development of a creative product that illustrates the students' knowledge and skills relevant to food, energy, and/or water systems.

**Credit Hours:** 3

**Max credits per semester:** 3

**Max credits per degree:** 3

**Grading Option:** Graded with Option

**Prerequisite for:** SCIL 300

## SCIL 488 Teaching Undergraduate Science

**Crosslisted with:** AGRI 888, AGRI 488, SCIL 888

**Description:** The dynamics of undergraduate student learning. Begin to develop the reflective practice of progressive instructional improvement. Interpreting improved educational outcomes in terms of the ability of the instructor to manipulate undergraduate student interactions with instructional materials in an active learning environment.

**Credit Hours:** 1

**Max credits per semester:** 1

**Max credits per degree:** 1

**Grading Option:** Graded with Option

**Offered:** FALL