



Syllabus

FYS 130 First Year Seminar in Science

General Information

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Department

Science and Technology

Course Prefix

FYS

Course Number

130

Course Title

First Year Seminar in Science

Course Information

Credit Hours

3

Lecture Contact Hours

3

Lab Contact Hours

0

Other Contact Hours

0

Catalog Description

This course will serve as an introduction to scientific reasoning, providing students an opportunity to practice posing thoughtful questions, evaluating evidence, and forming hypotheses. Each seminar will focus on a particular topic within science, and students will use exploration of that topic to develop the critical thinking, reading, and writing skills that are necessary for success within the discipline of science. The seminar will also involve reflection on their own learning, habits of successful students and scientists, and how to access campus resources.

Key Assessment

This course does not contain a Key Assessment for any programs

Prerequisites

None

Co-requisites

None

Grading Scheme

Letter

First Year Experience/Capstone Designation

This course is designated as satisfying the outcomes applicable for status as a
First Year Experience

SUNY General Education

This course is designated as satisfying a requirement in the following SUNY Gen Ed category
None

FLCC Values

Institutional Learning Outcomes Addressed by the Course

Inquiry
Interconnectedness

Course Learning Outcomes

Course Learning Outcomes

1. Pose questions in order to explore a topic, resource, or issue within science about which they are curious.
2. Reflect on their own learning in order to articulate academic and career goals and develop an educational plan to reach those goals.
3. Demonstrate information literacy skills designed to enhance academic and personal success.
4. Demonstrate understanding of scientific method, including evaluating evidence to support or negate hypotheses

Outline of Topics Covered

Each seminar will be focused on a particular scientific topic or issue and use primary and secondary literature to explore that topic, while also teaching:

1. Nature of science (scientific method)

2. How to read scientific journal articles
3. Evaluating multiple types of data
 - a. forming conclusions
 - b. posing further questions
4. Forming hypotheses and/or proposing models to explain observations
5. Information literacy
 - a. using multiple sources of information
 - b. evaluating quality of information
 - c. citing sources
 - d. using campus library and databases
6. Ways to organize information
 - a. notetaking skills
 - b. concept mapping and/or flow charts