

# Course Syllabus

**Department:** Science and Technology

**Date:** 02/05/13

**I. Course Prefix and Number:** SCI 200

**Course Name:** Global Ecosystems

**Credit Hours and Contact Hours:** 3 credit hours and 3 contact hours

**Catalog Description including pre- and co-requisites:** *supporting data required for grade prerequisite of 'C' or higher.*

The purpose of this course will be to provide students with field experience relative to course work in the area of Science & Technology as presented at Finger Lakes Community College. This excursion will emphasize the ecosystems, climate change, habitat preservation and distributions within a specific ecosystem, as well as identification of flora and fauna in each studied community. All aspects of the region will be studied, including geology, geography, flora, fauna, culture and ecological initiatives.

The course will provide outstanding opportunity for students to observe and photograph rare and endangered species of flora and fauna, volcanic geology (inactive), as well as the more common life forms of the environments visited.

Students will encounter individuals employed in the fields of ecology, management and habitat preservation, university research, and will have the opportunity to explore this type of employment through interactions with professionals.

**Relationship to Academic Programs and Curriculum including SUNY Gen Ed designation if applicable:**

This course was designed to fulfill general science / elective credits (SCI)

**II. Course Student Learning Outcomes:** *State the student learning outcome(s) for the course (e.g. Student will be able to identify...)*

At the completion of the course, students will be able to:

- Demonstrate and ability to select and utilize modern methods and techniques for surveying ecosystems.
- Demonstrate their understanding of the local, regional, and global issues impacting the ecosystem under study.
- Describe the political, economic, and cultural issues associated with the ecosystem under study

- Demonstrate their understanding of the natural history of the primary flora and fauna associated with the ecosystem under study.

**College Learning Outcomes Addressed by the Course:** *(check each College Learning Outcome addressed by the Student Learning Outcomes)*

- |                                                         |                                                           |
|---------------------------------------------------------|-----------------------------------------------------------|
| <input checked="" type="checkbox"/> writing             | <input type="checkbox"/> computer literacy                |
| <input checked="" type="checkbox"/> oral communications | <input type="checkbox"/> ethics/values                    |
| <input type="checkbox"/> reading                        | <input type="checkbox"/> citizenship                      |
| <input type="checkbox"/> mathematics                    | <input checked="" type="checkbox"/> global concerns       |
| <input type="checkbox"/> critical thinking              | <input checked="" type="checkbox"/> information resources |

**III. Assessment Measures (Summarize how the college and student learning outcomes will be assessed):** *For each identified outcome checked, please provide the specific assessment measure.*

List identified College Learning Outcomes(s)	Specific assessment measure(s)
<i>eg: writing</i>	<i>eg: student will complete a research paper</i>
Writing	Students will write two papers covering flora and fauna of region of study. Students will be given an opportunity to produce drafts of their papers and receive feedback.
Oral communication	Students will give a class presentation on selected topics related to region of study
Global Concerns	Students will demonstrate knowledge of global climate issues on written exams
Information Resources	Students will use both web and library resources to research topics for the course and required writings.

**IV. Instructional Materials and Methods**

**Types of Course Materials:**

Provided Readings

**Methods of Instruction (e.g. Lecture, Lab, Seminar ...):**

Lecture and Field Experiences. SCI 200 is a travel course and all instruction takes place at the travel site.

**V. General Outline of Topics Covered:**

**Topics are specific to the Ecosystem being studied and will include:**

**Flora and Fauna (Vertebrates Invertebrates, Flora)**

**History / Culture / Geology**

**Global, Regional, Local impacts on ecosystems**

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