



UNIVERSIDAD SAN FRANCISCO DE QUITO
SCHOOL: CIENCIAS BIOLÓGICAS Y AMBIENT.
COURSE: ECL 3093E - Ecology & Resources of Ecuador

COURSE DETAILS:

Credits: 3

Prerequisites: Verify prerequisites in Banner academic system.

Co requirements: The course does not have Co requirements

COURSE DESCRIPTION:

In this course students will learn the basic principles of ecosystem function, how these ecosystems provide services to the human population, and what makes them vulnerable to resource extraction. Students will become familiar with the major ecoregions of Ecuador and the associated environmental problems. Students will learn about the basic principles of sustainable development while considering the importance of Ecuador's natural resources to the national economy. This course will touch on environmental economics through case studies and will have the opportunity to practice basic data analysis techniques.

COURSE LEARNING OUTCOMES:

#	Learning Outcomes	Level
1	Describe the importance of biodiversity.	Medio
2	Identify the importance of proper management of biodiversity.	Medio
3	Identify the use of the natural resources of Ecuador.	Medio
4	Describe the main ecosystems of Ecuador and fundamental aspects of their ecology.	Medio
5	Identify threats facing biodiversity in Ecuador and possible alternatives for their conservation.	Medio
6	Describe the main fauna in each ecosystem.	Medio

COURSE CONTENTS:

- Basic ecological concepts
- Ecosystems of Ecuador
- General ecology and main ecological processes
- Terrestrial biodiversity of Ecuador
- Resources of Ecuador
- Case studies
- Conservation and management of biodiversity
- Future challenges for Ecuadorian ecosystems



METHODOLOGY FOR THE INTEGRATION OF THEORETICAL AND PRACTICAL CONTENTS:

The teaching methodology used to teach all the course at USFQ follow the liberal arts philosophy: encourage dialogue and enable the learning construction through providing opportunities for ideas exchange among teachers and students. It is expected that all the theoretical content courses explore potential applications to the professional practice and work context where students are anticipated to perform through the integration of diverse activities and simulations that foster the contextualized understanding of concepts using reality and professional practice as frames of reference.

HOURS DESCRIPTION OF APPLIED PRACTICE

If this course has declared applied practice hours (laboratories, exercises, field trips, practicums, etc.); the instructor for the theoretical element is responsible for describing how the applied practices hours will be fulfilled and assessed during the semester.

Students must pass or fail both the theoretical and application practice components simultaneously.

All courses with declared applied practice hours must provide students with a written guide detailing the requirements for fulfilling the application practice component.

COURSE ASSESSMENT:

Each instructor is responsible for creating an evaluation scheme that corresponds to the learning outcomes declared for each course. The assessment scheme should be presented in a clear and direct manner, such as a chart that indicates the assessment categories and the elements included in each category; it must indicate the total weight that each category will have on the final grade. Category weights may vary, but under no circumstance can an individual element weigh more than 25% of the final grade. For example, it is acceptable for a "Homework" category to weigh 30% if it includes three tasks that weight 10% each. However, a "Final Exam" category that weighs 30% and only includes one element would be unacceptable.

Some academic areas or specific courses have pre-established assessment parameters. In these cases, all instructors assigned to these courses must follow the pre-determined scheme.

If this course has declared applied practice hours (laboratories, exercises, field trips, practicums, etc.) the assessment of these hours must be incorporated within the course's general assessment scheme.

#	Category	Description	Percentage of final grade



MAIN BIBLIOGRAPHY:

[The main bibliography must be in library in physical or digital format]

- Kricher, John C., Tropical ecology /, Princeton, N.J. : Princeton University Press, ©2011.

COMPLEMENTARY BIBLIOGRAPHY:

[The complementary bibliography can be digital format]

POLICIES:

All students taking courses at USFQ must follow the ethics of learning, ethics of research and ethics of behavior rules detailed in the [USFQ's Code of Honor and Coexistence](#). All the general policies for the courses offered at USFQ are detailed in the Student's Manual, it can be downloaded in [Manual del Estudiante](#).

This syllabus (Syllabus) was reviewed and approved by the coordination of the academic area or department responsible, so all the parallels that are dictated must be governed by this program. If changes / adjustments to the study program are necessary, you should To the coordination of the academic area or department responsible so that the approved changes / adjustments are reflected in the system of Curricular design.'