

CATIE: AN INTERNATIONAL GRADUATE SCHOOL

CATIE is an international university renowned for its excellence in combining education, research and innovation for development to form leaders as change agents and to meet the challenges and opportunities of a changing world. Based in Costa Rica, the CATIE graduate program in agriculture and natural resources is the oldest in Latin America, with more than 70 consecutive years of building human capital. Alumni and professors in the program come from more than 50 countries. Additionally, the school has agreements with over 50 universities in the United States, Europe and Latin America, and works with more than 400 partners in Latin America, the Caribbean and elsewhere.



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Escuela
Posgrado Catie

INTERNATIONAL
ACADEMIC MASTER'S
DEGREE IN
**CLIMATE CHANGE
MITIGATION AND
ADAPTATION**



The IPCC's Fifth Assessment Report signals the urgency to take actions to address climate change. These actions should ensure that the negative impacts of climate change do not rise above a level that could cause irreversible harm to the natural systems on which human well-being depends.

This master's degree seeks to respond to a regional and international demand to train professionals and scientists with knowledge, capacities, and technological skills and tools to develop and integrate responses to mitigate and adapt to variability and climate change.

The program focuses on the analysis of impacts and vulnerabilities, environmental decision-making processes, and on technologies that facilitate the implementation and monitoring of means for mitigation and adaptation to variability and climate change and its benefits.

CATIE has extensive and proven experience in implementing projects and regional and local programs that are at the forefront of knowledge on how to tackle climate change. These projects also provide opportunities for students to gain research experience in contexts relevant to their professional development and to exchange experiences with different professionals, in international contexts. CATIE also has modeling and biophysical laboratories, regional databases, and a wealth of case study opportunities in rural areas where research and development projects are being implemented.

GENERAL STRUCTURE AND COURSES OFFERED

To earn the degree for *Magister Scientiae* (Master of Science), students must pass a minimum of 68 credits: 33 academic credits and 35 research credits, as summarized below:

- Core curriculum or basic courses: three courses, with a total of nine academic credits.
- Specialty courses in mitigation and adaptation to climate change: 15 academic credits.
- Electives: a minimum of nine academic credits made up of courses and guided studies.
- Thesis: 35 research credits.
- English courses: focusing on reading and comprehension.

The courses will be taught principally in Spanish.

Core curriculum or basic courses

Ecological, economic and social considerations in agricultural production and management of natural resources; Statistical tools for research in agriculture and natural resource management; Foundations and tools for technical and scientific research; English.

Specialty courses

Introduction to the science of climate change; Tropical ecosystems, ecosystem services and climate; Introduction to the science of environmental decisions and its applications; Mitigation actions for climate change and systems for measurement, reporting, verification; Economics of climate change; Climate change project design.

Elective courses

Introduction to the socio-ecological dimensions of production systems in the face of climate change; Biomass and carbon quantification on the ecosystem level; Scientific programming; Integration of climate change adaptation in planning. There is also a selection of over 20 additional courses, which students can choose based on their interest.

ADMISSIONS

A bachelor's degree is required. Admission is based on the applicant's curriculum vitae (CV), his/her university academic performance, and responses to the logical reasoning and specialization questionnaires (available at <http://www.catie.ac.cr/es/programas-de-educacion/posgrado>). Although the admission's period is open year round, we recommend submitting documents no later than September to facilitate admissions and fundraising processes.

HOW TO APPLY?

Those interested should complete the application form and attach all of the indicated documents. The application can be found on the CATIE website: <http://www.catie.ac.cr/es/programas-de-educacion/>.

ACADEMIC CALENDAR

The CATIE academic year runs from the third week of January through the second week of December, with two weeks of vacation. The academic year is divided into trimesters.