Science and Management of Climate Change

The PhD in Science and Management of Climate Change is aimed at preparing researchers capable of navigating and connecting the challenging, complex and multi-faceted dimensions of climate change.

Visit the website
FIRST YEAR STRUCTURE
PhD students follow 6 mandatory courses during the 1st term, one of the two streams during the 2nd term, two of the optional courses and any lab they wish.

1ST TERM
FOUNDATIONS
1. Mathematical Modelling and Programming
2. Statistics
3. Programming & Machine Learning
4. Introduction to Climate Dynamics
5. Environmental and Climate Economics
6. Climate of the Past (optional)

2ND TERM / Stream 1
CLIMATE ECONOMICS AND FINANCE
1. CGE and IAM of Climate Change Impacts & Policies Evaluation
3. Domestic and International Climate Policies
4. Climate Finance

2ND TERM / Stream 2
CLIMATE MODELING AND IMPACT ASSESSMENT
1. Chemodynamics, Climate Change, Environmental Quality
2. Climate Modelling and Monitoring
3. Risk Assessment and DSS for Environmental Impacts of Climate Change
4. Climate Damage Modelling and Assessment

TWO COURSES OF YOUR CHOICE:
1. Energy systems
2. Adaptive Management of Natural Resources and Agricultural Systems
3. Decision Theory and Multi-criteria Analysis

OPTIONAL LABS:
1. Topics in Science and Management of Climate Change
2. Data, Tools and Methods for Earth Sciences - Introduction
3. Data, Tools and Methods for Earth Sciences - Practicals

A FOUR-YEAR PHD’S PROGRAMME
ACTIVITIES
Didactic activities: 360 hours
Labs: 45 hours.
Total ECTS/CFU: 66

COURSE PERIOD
From September 2024 till June 2028

LANGUAGE
English

COURSE LOCATION
- Ca’ Foscari Challenge School at VEGA Parco Scientifico Tecnologico di Venezia, Edificio Porta dell’Innovazione, Venezia Marghera
- San Giobbe Campus, Fondamenta San Giobbe, Venezia
- Scientific Campus, via Torino 155, Mestre

ADMISSION
At least a second cycle specialization or pre-reform degree (Italian Ministerial Decree no. 509/99) or equivalent foreign university qualifications, following approval from the Teachers’ Board. English language proficiency level of at least B2.

APPLICATION
The call for the 40th cycle will be published in April 2024.
Open day: April 22nd, 2024

STUDY SUPPORT
The 40th cycle will have 10, 4-year, fully-funded scholarships. Non Italian students will need to pay for their health insurance.

MORE INFORMATION
https://www.unive.it/web/en/166/programme
phd-climate-change@unive.it

FOLLOWING YEARS STRUCTURE
SECOND YEAR
Students begin their research work, may serve as teaching assistants, and have to follow at least twenty seminars. Students can also follow more courses of ered by other PhD programmes at Ca’ Foscari and can begin their mobility to a foreign research institute or university for at least three months and up to eighteen.

THIRD YEAR
Students continue their research work, may serve as teaching assistants, and have to follow at least twenty seminars. Students are encouraged to begin their mobility to a foreign research institute or university for at least three months.

FOURTH YEAR
Students will complete their thesis to present their work, first in a preliminary presentation and then in a pre-defence.