

Program Team

The program team consists of internationally renowned academics and researchers including prominent scientist from the Cyprus Department of Meteorology.

PROGRAM COORDINATOR

Assoc Prof George Biskos

INSTRUCTORS

Prof. Johannes Lelieveld

Prof. Nikos Mihalopoulos

Prof. Jean Sciare

Adjunct Prof. Mihalis Vrekoussis

Adjunct Prof. Silas Michaelides

Adjunct Prof. Johnathan Williams

Assoc. Prof. Adriana Bruggeman

Assoc. Prof. Panos Hadjinicolaou

Assoc. Prof. Franco Marengo

Adjunct Assoc. Prof. Charbel Afif
Asst. Prof. Efstratios Bourtsoukides
Asst. Prof. Theodoros Christoudias
Asst. Prof. Tuija Jokinen

ASSISTANT INSTRUCTORS

Dr. Spyros Bezantakos

Dr. Demetris Charalambous

Dr. Hakan Djuma

Dr. Kamil Erguler

Dr. Minas Iakovides

Dr. Anne Maisser

Dr. Jean-Daniel Paris

Dr. Michael Pikridas

Dr. Jonilda Kushta

Dr. Filippos Tymvios

Dr. George Zittis

Why study at The Cyprus Institute Graduate School?

EXCEPTIONAL FACULTY

Students have the opportunity to study alongside exceptional inter-disciplinary faculty and world-leading research teams. These faculty and researchers are attracted to the institute due to its intensive research focus and Cyprus's unique geographical position which provides access to an area abundant with research challenges and opportunities.

STATE-OF-THE-ART FACILITIES

The Cyprus Institute has the most advanced research infrastructure in Cyprus dedicated to cross-disciplinary research, with some of the facilities unique on a regional level. Our students have access to this infrastructure throughout the duration of their graduate research.

LOW STUDENT-FACULTY RATIO

The Graduate School maintains a small number of hand-picked students, which results in a low student-faculty ratio. This allows for a high degree of individual focus

in research, personal guidance, mentoring and career coaching resulting in successful placements.

MULTICULTURAL ENVIRONMENT

The School values the strengths that a multicultural environment provides so it has made it a priority to promote diversity, hence: 56% of our students and 68% of our faculty are international. English is the language of instruction and communication.

COMPETITIVE RESEARCH

Cyl is a champion in competitive research, attracting an impressive number of European projects and other competitive grants. In Horizon 2020, Cyl has attracted 12 times the European average in terms of funds per R&D FTE personnel (2014 to 2020). As a result, many of our students are offered financial aid through their participation in research teams, which strengthens their research experience alongside their theoretical education.

Collaborations with:



ADMISSION REQUIREMENTS

A BACHELOR'S DEGREE from a recognized accredited academic institution, with a strong background in natural sciences, mathematics or engineering.

PROOF OF ENGLISH LANGUAGE PROFICIENCY

Check our website for requirements and waiver conditions.

FINANCIAL AID

Merit-based scholarships will be offered.

APPLICATION DEADLINE

Check our website for application deadlines.

CONTACT

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The Cyprus Institute Graduate School reserves the right to make any changes to the program upon approval by the Ministry of Education, Culture, Sport and Youth.



THE CYPRUS INSTITUTE GRADUATE SCHOOL

MSc/MPhil Environmental Sciences



Accredited by



Why Environmental Sciences?

Our environment is being challenged in numerous ways due to pollution, global warming, overpopulation, and natural resource depletion. The Environmental Sciences program involves two specialization tracks from which students can select, each dealing with important aspects of the field and aiming to shed light on and address the aforementioned challenges.

The Atmospheric Sciences Track addresses the basic physical processes involved in maintaining the global circulation of the atmosphere and the surface climate; weather and climate models to understand the governing physical principles and their use for climate and weather prediction purposes; the principles of atmospheric chemistry and biology; the factors controlling air quality and the techniques used for air pollution control; the major air pollution sources and methods for measurement, data collection and analysis of atmospheric samples.

The Meteorology Track addresses subjects in Meteorology and Climatology with the aim to equip students with the weather and climate knowledge and skills necessary in weather forecasting, agrometeorology, hydrometeorology, biometeorology, aviation meteorology, renewable energy resources, marine meteorology, climate change and its impacts assessment etc. Moreover, students complete a Basic Instruction Package as required by the World Meteorological Organization, including Physical Meteorology, Dynamic Meteorology, Synoptic and Mesoscale Meteorology and Climatology.

Career Prospects

Atmospheric Sciences Track

Graduates will be equipped to pursue careers in:

- Environmental Consulting Agencies
- Environmental Monitoring Divisions of public and private institutions
- Research Institutions and Universities

Meteorology Track

Graduates may pursue a professional career in:

- National Meteorological Services*
- Meteorological consulting, software or instrumentation companies
- Media
- Private Forecasting companies
- Research Institutions and Universities

Graduates of our Master's program in Environmental Sciences may continue on to our PhD program in Energy, Environment and Atmospheric Sciences, which offers generous financial support options.

* The WMO (World Meteorological Organization) has recently upgraded the qualification requirements for professionals working in the National Meteorological and Hydrological Services of its member countries. Professional staff are encouraged to undergo an officially recognized course of Meteorology that will include a Basic Instruction Package for Meteorologists (BIP-M), as is determined by the WMO.

The **Meteorology Track** syllabus covers all topics required for professionals employed in National Meteorological and Hydrological Services, as prescribed by the WMO.

Research Infrastructure

CYPRUS ATMOSPHERIC OBSERVATORY

This facility provides high quality, long-term observations of key atmospheric pollutants relevant to air quality and climate change.



UNMANNED SYSTEMS RESEARCH LABORATORY (USRL)

The USRL at Cyl offers on-site facilities and related infrastructure for research, development, and testing of technologies related to UAV's (Unmanned Aerial Vehicles).

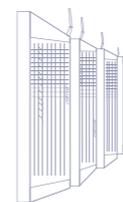


FACILITY FOR CHEMICAL ANALYSES (FCA)

FCA gathers the latest trace analytical techniques for environmental samples (atmospheric aerosols & gases, rainwater etc.) and provides a large range of quality controlled chemical analyses relevant for air and water quality.

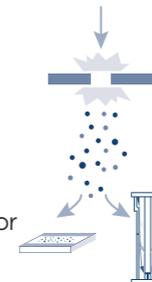
CYCLONE HIGH PERFORMANCE COMPUTING FACILITY

One of the most powerful supercomputers in the region is accessible for Climate Modeling.



INSTRUMENTATION FOR NANOPARTICLE SYNTHESIS AND CHARACTERISATION LABORATORY (INL)

Scientists working in the INL develop innovative instruments and sensors for determining indoor and outdoor air quality



Degree Options

The program offers two degree options: the MSc caters to students interested in pursuing a more professional focus, while the MSc/MPhil is intended for students that want to pursue a research career thus offering a more enhanced research component.

MSc Environmental Sciences

The MSc is a 90 ECTS, 12-month program. Students take courses during the first two terms. Students are also required to complete a research project which is assessed through a report and a viva at the end of the program.

MSc/MPhil Environmental Sciences

The MSc/MPhil is a 120 ECTS, 18-month program. Students take courses during the first two terms. Students are also required to complete an extensive research project which is assessed through a Master's thesis and a viva at the end of the program.

PROGRAM STRUCTURE

	MSc (ECTS)	MSc/MPhil (ECTS)
Courses	60	60
Research project	30	60
Total	90	120

Regardless of degree option, during each of the first two terms students must take 1 Mandatory, 1 Track Mandatory and 1 Elective Course

COURSES

Mandatory Courses		ECTS
ES 401	Fundamentals of Atmospheric Physics and Meteorology	10
ES 402	Climatology	10
Track Mandatory Courses		
ES 406	Atmospheric Chemistry and Biology (AST)	10
ES 407	Atmospheric Measurement Techniques (AST)	10
ES 408	Dynamic Meteorology (MT)	10
ES 409	Synoptic Meteorology (MT)	10
Elective Courses		
ES 416	Atmospheric Modeling	10
ES 417	Hydrology and the Atmosphere-Water Cycle	10
ES 418	Aerosol Physics and Chemistry	10
ES 419	Climate Change: Concepts and Perspectives	10

AST: Atmospheric Sciences Track

MT: Meteorology Track

Track option selection is defined by the selection of track mandatory courses at the beginning of the program

The language of instruction and communication of The Cyprus Institute (Cyl) is English.

Students who continue on to PhD studies at Cyl may have certain courses and research requirements waived.

Simulation of Dust Emission and Transport over Europe and the Mediterranean in September 2015 by The Cyprus Institute Atmospheric & Climate Modelling Group.

