

PRACTICAL INFORMATION

APPLICATIONS TO M1 OR M2

Prerequisite to access MSc Atmospheric Sciences :

- Having completed a Bachelor (180 ECTS validated) in chemistry, chemical physics or physics.
- A minimum B1 level in English is required to enroll in this master's program.

For further information, please feel free to contact us:

Co-coordinators of MSc Atmospheric Sciences

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- For international students from country with a Campus France agency: apply on the Campus France/Etudes en France online platform: <https://pastel.diplomatie.gouv.fr/etudesenfrance/dyn/public/authentication/login.html>
- For other international students without Campus France agency: apply on the e-candidat online platform: <https://ecandidat.univ-lille.fr>
- For graduate students in France in 2021-2022 e-candidat platform: <https://ecandidat.univ-lille.fr/>



For more information on the national diplomas offered by the Faculty of science and technology of the University of Lille, consult the training catalog: www.univ-lille.fr/formations.html

INTERNATIONAL RELATIONSHIPS

- The University of Lille has a policy of supporting international access to its courses. That's why it has introduced special procedures to make international students feel welcome and form collaborations.

<https://www.univ-lille.fr/home/international-student/>

- Practical information for your stay at the University of Lille

<https://www.univ-lille.fr/home/international-student-tool-box/>



GRADUATE PROGRAM
'SCIENCE FOR A
CHANGING PLANET'

Master

Master 1 - Master 2

Mention

Physical and Analytical Chemistry

ATMOSPHERIC SCIENCES



OBJECTIVES

Atmospheric Sciences is an international master's degree (M1+M2) created in 2013 aiming to give a solid background in:

- Physical and chemical properties of the atmosphere,
- Analytical sciences applied to airborne environment,
- Recent research activities on air pollution and climate changes.

The master is built on the research activities of seven research laboratories and supported by the Labex CaPPA. Lecturers, specialists in atmospheric sciences and analytical chemistry, are involved in research projects directly linked to the chemical and physical properties of the atmosphere. All lectures are taught in English.

TARGETED SKILLS

- To gain a strong background in physical and chemical properties of the atmosphere.
- To develop strong experimental skills (spectroscopic techniques, analytical chemistry, trace species detection, remote sensing, atmospheric monitoring, dispersion modeling...).
- To get professional experience through research training in research laboratories (2 months training in M1 and 5 months training in M2).

JOB OPPORTUNITIES & FURTHER STUDIES

- Researcher, Academic Professor
- Engineer in air quality or atmospheric measurements
- Environmental consulting

Access to PhD thesis

- Most of the students continue with a PhD thesis after the M2. A wide range of offers is available each year in the seven laboratories of the Labex CaPPA involved in the Master program.



TRAINING ASSETS

- Course content is based on the most recent research. All lectures are taught in English. Students from more than 14 nationalities attended our master classes since 2013.
- Professors are involved in 7 research laboratories:
 - LOA Laboratoire d'Optique Atmosphérique
 - PC2A PhysicoChimie des Processus de Combustion et de l'Atmosphère
 - PhLAM Laboratoire de physique des lasers, atomes et molécules
 - LASIRE Laboratoire de Spectroscopie pour les Interactions, la Réactivité et l'Environnement
 - ICARE Cloud-Aerosol-Water-Radiation Interactions
 - LPCA Laboratoire de Physico-Chimie de l'Atmosphère
 - SAGE Sciences de l'Atmosphère et Génie de l'Environnement
- The Master's program is regularly expanded with seminars by visiting professors from laboratories from all over the world.



TRAINING ORGANIZATION

All courses taught in English

S4	Research training in Laboratory Full-time research position in lab (around 20 topics per year in affiliated research lab)		
S3	6 units in atmospheric sciences Gas and aerosols, surface analysis, advanced spectroscopy, laser diagnostics, atmospheric modelling		
S2	2 units of Chemical Physics	2 units in Atmospheric Sciences	Internship (2 months) (industry/lab research) France or international
S1	4 units of Chemical Physics	Introduction to Physic and chemistry of the Atmosphere (1 unit)	1 unit of Language

THIS MASTER'S DEGREE PROGRAMME IS PART OF THE GRADUATE PROGRAMME 'SCIENCE FOR A CHANGING PLANET'

A research-driven and interdisciplinary training in a competitive and innovative scientific environment offering research internships, international mobility grants, and professional networking for successful career planning. Graduate Programme students can actively interact with PhDs during thematic events to prepare their careers and to tackle the scientific and technological challenges of our time.

Key figures

8 MSc, 2 Graduate Schools, 12 Laboratories, 55 PhDs/year

Scholarships

- 3 different scholarships are awarded by the Graduate Programme « Science for a Changing Planet » to support students' studies (3500€/year), facilitate settling down in Lille (3500€), and foster outgoing international mobility (up to 3000€).

- deadline: 15th March 2022 (First call)

- deadline: 20th June 2022 (Second call)

More information about eligibility, criteria, and application <https://international.univ-lille.fr/graduate-programmes/science-for-a-changing-planet/bourses-etudes-mobilite-these/>

