

SCIENCES, TECHNOLOGIES AND HEALTH

Hydroressources et Qualité des Milieux 1st and 2nd year

Master in Earth, planetary and environmental sciences



Target level
Baccalaureate
+5



ECTS
120 credits



Duration
2 years



Component
UFR PhITEM
(physique,
ingénierie, terre,
environnement,
mécanique)



Language(s) of
instruction
French

Presentation

To view the presentation of the Hydroressources et Qualité des Milieux 1st and 2nd year program in French click on the following link : [🔗 Parcours Hydroressources et Qualité des Milieux 1re et 2e années](#)

International education : Internationally-oriented programmes

International dimension

Study abroad as an exchange student

As part of this track, you have the opportunity to study for a semester or a year at a UGA partner University abroad.

The International Relations Officers of your faculty will be able to provide you with more information.

More information on : [🔗 https://international.univ-grenoble-alpes.fr/partir-a-l-international/partir-etudier-a-l-etranger-dans-le-cadre-d-un-programme-d-echanges](https://international.univ-grenoble-alpes.fr/partir-a-l-international/partir-etudier-a-l-etranger-dans-le-cadre-d-un-programme-d-echanges) /

Admission

Access conditions

- The 1st year is open to students who have obtained a national diploma equivalent to a bachelor degree (licence) in a field compatible with that of the master, or via a validation of their studies or experience
 - Entry to the 2nd year may be selective. It is open to candidates who have completed the first year of a master in the field, subject to a review of their application
- Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed. If you do not have the diploma required to integrate the training, [🔗](#) you can undertake a validation of personal and professional achievements (VAPP)

Candidature / Application

You want to apply and sign up for a Master? Please be aware that the procedure differs depending on the diploma you want to take, the diploma you have already obtained and, for foreign students, your place of residence. Let us be your guide – simply follow this [link](#) (English version) or this [link](#) (French version)

Fees

Tuition fees 2023-2024: 243 € + 100E CVEC

Useful info

Contacts

Program director

Lorenzo Spadini

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Program director

Cedric Legout

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Administrative contact

Registrar's Office of the Master in Earth,
planetary and environmental sciences

✉ phitem.master.stpe@univ-grenoble-alpes.fr

Administrative contact

Application

✉ phitem.candidature.etudiant@univ-grenoble-alpes.fr

Continuing education manager

Contact FC STS

✉ fc-sts@univ-grenoble-alpes.fr

Course location(s) - City

📍 Grenoble

Campus

🏠 Grenoble - University campus

Program

Master 1st year

Semester 7

	Nature	CM	TD	TP	Crédits
UE Air, soil, water : introduction to environmental pollutants modelling	Teaching Unit (UE)				6 credits
UE Climatic and Environmental variability	Teaching Unit (UE)			45h	6 credits
UE Géochimie des contaminants : I) interactions métaux/minéraux/matière organique dans les réservoirs terrestres	Teaching Unit (UE)		6h	18h	6 credits
UE Hydrology and hydraulics	Teaching Unit (UE)				6 credits
UE Geophysical Prospecting	Teaching Unit (UE)				3 credits
UE Géochimie des contaminants II) modélisation Phreeqc	Teaching Unit (UE)		18h		3 credits
UE Fluid mechanics	Teaching Unit (UE)			6h	3 credits
UE Introductory Field Course - Professional project	Teaching Unit (UE)				3 credits

Semester 8

	Nature	CM	TD	TP	Crédits
UE Hydrogeology	Teaching Unit (UE)				6 credits
UE Professional and Scientific Communication 1	Teaching Unit (UE)			24h	3 credits
UE Lautaret Field Course: Snow-Atmosphere interface	Teaching Unit (UE)				6 credits
UE Hydrology and Hydrometeorology Field Course	Teaching Unit (UE)				6 credits
UE Instrumentation and metrology	Teaching Unit (UE)	36h		12h	6 credits

UE Atmospheric pollution: Principles and Experimental Methods	Teaching Unit (UE)		24h	6 credits
UE Remote sensing and GIS project	Teaching Unit (UE)	36h	24h	6 credits
UE Environment records	Teaching Unit (UE)			3 credits

Master 2nd year

Semester 9

	Nature	CM	TD	TP	Crédits
UE Organic pollutions and remediation	Teaching Unit (UE)		15h		6 credits
UE Projets en Géochimie/Hydrologie et Qualité de l'Eau	Teaching Unit (UE)				6 credits
UE Transfer in Porous Media	Teaching Unit (UE)				6 credits
UE Continental Systems Hydrology	Teaching Unit (UE)			12h	3 credits
UE Transferts dans les eaux de surface	Teaching Unit (UE)				3 credits
UE Water quality and treatment	Teaching Unit (UE)				6 credits
UE Environmental-politics	Teaching Unit (UE)		6h		3 credits
UE Emerging pollutions	Teaching Unit (UE)		9h		3 credits
UE Hydrogeophysics for Hydrodynamic modeling	Teaching Unit (UE)				3 credits
UE Hydrogeophysics	Teaching Unit (UE)	6h			3 credits
UE Hydrologie et climat	Teaching Unit (UE)			12h	3 credits

Semester 10

	Nature	CM	TD	TP	Crédits
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UE short Internship	Teaching Unit (UE)	6 credits
UE long Internship	Teaching Unit (UE)	24 credits