

The program in short

This innovative **all-English** program brings a **cross-disciplinary** approach to the complex question of how climate change in mountainous regions affects both humans and nature. Combining methods and knowledge from earth sciences, the humanities, and social sciences, this program welcomes students from all disciplines.

Your participation can be recognized by **up to 6 European credits** by your home university.

Advisory committee: Pr. Philippe Bourdeau, Pr. Frédéric Donzé, Dr. Pascale Huyghe, Dr. Sophie-Adelaide Magnier, Mr Vincent Rauzier.

Grenoble, capital of the French Alps

A metropolitan town with a population of half a million, where one in 5 people are associated to the University and its research, where businesses range from very traditional to high tech innovative small and medium enterprises as well as international companies.

Here within the Université Grenoble Alpes, a large community of researchers and project leaders focus on Mountains either as their central piece of observation terrain or on concepts applicable to this terrain.

Mountains are at the core of our DNA as a university community and we are proud to reflect on this with this program, that we invite you to share with us.

Apply by March 31st, 2020

www.univ-grenoble-alpes.fr/mountainschool



MOUNTAINS IN A CHANGING WORLD GRENOBLE Summer School



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**June 22 -
July 10, 2020**





Field trips and outings

- ▲ Visual tour of the physical surroundings, landscape and urban development at the Bastille fort
- ▲ 3-day field trip with geographers, sociologists and geologists, from Briançon to Grenoble
- ▲ 1-day field trip in the Vercors: local stakeholders working to diversify tourism within the Vercors range
- ▲ 1-day field trip in the Chartreuse Regional Park, Monastery museum and military fort
- ▲ 1-day field trip to a glacier in Chamonix, at the foot of the Mont Blanc



What to do in and around Grenoble

- ▲ Free brass band, short-movie, street art, European youth theater and music festivals
- ▲ Hikes to the surrounding mountain ranges
- ▲ Lakes
- ▲ Neighboring towns: medieval Annecy & Victorian-style Aix-les-Bains and their lakes, the UNESCO World Heritage Sites of Lyon and Avignon...
- ▲ Simply experience the French Art de vivre in sunny Grenoble!



Practical information

www.univ-grenoble-alpes.fr/mountainschool

1550€ without accommodation

Fees include

Access to all program lectures & program materials, access and transportation to all social and/or academic trips in the program, welcome lunch, food and accommodation during field trips, public transportation pass in Grenoble, Certificate of completion and official transcript.

Deadline for application March 31st, 2020

Questions? Contact summerschool@univ-grenoble-alpes.fr

Week 1

THE PHYSICAL ENVIRONMENT

- ▲ Basics of geodynamics
- ▲ The need for physiological adaptation
- ▲ Nights in the city of Briançon and in a shelter
- ▲ Plant and animal adaptation in changing climates
- ▲ The University Alpine Botanical Garden
- ▲ Mountain shelters, keepers, and their scientific roles
- ▲ The Chenaillet Ophiolites: hike

Week 2

HUMAN IMPACT

- ▲ Reflection on the Anthropocene
- ▲ Humans in the Alps: characteristics, needs and context
- ▲ The Chartreuse Monastery
- ▲ The Chartreuse Regional Park
- ▲ Vercors: adapting local economies and touristic resources to new challenges
- ▲ Grenoble's metropolitan area: political, economic and social perspectives
- ▲ Urban planning and mountains: managing mountain-related risks

Week 3

CHANGES: WHERE ARE WE GOING?

- ▲ Rock fall in hazardous mountain areas: the visible impact of political decisions
- ▲ Volcanoes and related risks
- ▲ Rivers: impacts of human uses
- ▲ Pollution of aquifers: the case of the Himalayas
- ▲ Atmospheric pollution in the Alps
- ▲ Global warming: measures on mountains
- ▲ Glaciology: field-trip to the Mont-Blanc