

> University of Grenoble
University of Grenoble



With its 60,000 students, University of Grenoble (UJF is part of it) is one of Europe's leading universities. It offers its students high-quality education, providing them with a passport to the professional world. Our university has acquired this international status through the quality of its teaching and the excellence of its research, much of which takes place in collaboration with major international and national organisations. Moreover, the attractive environment of the university city at the gateway to the Alps, with its large scientific community, has encouraged many international companies to move here. Our priority is to expand our scientific disciplines in order to foster innovation.



> Practical informations
Practical informations

When does the Summer Session take place in 2014 ?

From early June 2014 to mid-July 2014.

Who is it for ?

It is designed for English speaking undergraduate students from 2nd to 4th year. A good level in science is required, with different prerequisites for each course.

Program cost :

approximately 2,000 euros, food and housing included. Check with us and your home university for free tuition. Grants associated with a research institute in Grenoble are also available.

Contact :

summer-program@ujf-grenoble.fr

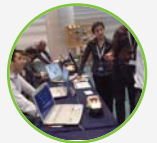


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Bachelor Summer Program

Six weeks to take scientific courses and to discover the French way of life in Grenoble !

June 2th – July 13th, 2014



SCIENCE (60 HOURS)
LAB/INDUSTRY VISITS
CULTURAL VISITS






Rhône-Alpes
Région
GRENOBLE-ALPES
Métropole



VILLE DE
GRENOBLE



ESRF



af Grenoble
Alliance Française
Culture et Langue Française



NEUTRONS
FOR SCIENCE

> A six weeks program



The Bachelor Summer Program gives you the opportunity to study at UJF, gain credits for your home university and meet students from all over the world ! It is also open to French UJF students with whom you will interact daily. This 6 weeks program offers scientific courses taught in English and French classes (except for UJF students).

You may choose among three scientific courses (Introduction to physical computing, to large scale facilities and to biological chemistry). You will discover different aspects of French life through cultural excursions within the city and in its beautiful mountain environment.



> Content of program

ENGINEERING

“Introduction to Physical computing”

Organisation: 60 h Lecture / tutorials / lab and company visits

Prerequisites: Basics in programming and electronics

Topic: Physical computing focuses on interactions with the physical world using a variety of sensors and actuators that are controlled by microcontrollers and computers. You will build your own robot and learn how to control it using the Arduino platform.

<http://air.imag.fr>



PHYSICS

“Introduction to large scale facilities: probing matter with neutron and synchrotron radiation”

Organisation: 60 h Lecture / tutorials / lab work / ESRF and ILL visits

Prerequisites: Wave propagation and interferences, background in quantum mechanics is useful.

Topic: You will learn the basis of cristallography and discover how useful neutron and synchrotron sources are. Applications will focus on condensed matter and other domains such as biology, earth science...



BIOCHEMISTRY

“Introduction to Biological Chemistry”

Organisation: 60 h Lecture / tutorials / lab and company visits

Prerequisites: Basics in Chemistry and biology

Topic: You will use chemical approaches to study cellular processes including catalysts, metabolism, bioenergetics and biochemical genetics. The structure and function of biological macromolecules involved in these processes will be emphasized.

FRENCH

“French language and civilisation”

Organisation: 45 h classes + cultural visits

Prerequisites: none

Topic: You will learn French, discover and enjoy the daily life in France through different cultural and outdoor activities.