



INTERNATIONAL PROGRAMS

L'Université de Grenoble offers undergraduate, postgraduate programs and doctoral schools covering all disciplines and boasting a truly pluridisciplinary approach, many of them having a specific international dimension. Established links with foreign universities and large firms enable students to master several languages and acquire international experience (internships or training abroad).

Among the leading programs, the following selective list is specially intended to welcome international students, with most courses being taught in English language.

Master in Informatics (MoSIG)

Classes in English
4 semesters
Enrolment: May 31st

Parallel, distributed and embedded systems • Mobile and interactive systems • Security and cryptology of informatics systems • Robotics • Computer vision • Artificial Intelligence and the Web.

► Advanced professional research training, access to doctoral studies.

Bachelor in Computer networks and telecommunications specialising in wireless networks and security

Classes in English
1 or 2 semesters
Enrolment: May 1st

Networks security • Telecommunications engineering • Wireless technology.

► Undergraduate program. Project-based learning. A 16-week (minimum) industrial or research placement, carried out either in a company or in a research laboratory.

Master in Communication systems engineering

Classes in English
4 semesters
Enrolment: March 1st

Electrical engineering • Informatics • Applied mathematics • Electronics • Security and architecture of distributed systems • Optical fiber communication systems • Wireless network • Computer network • Numerical transmission systems.

► Advanced education program with 3 universities (France, Italy, Switzerland). Careers in telecommunications systems engineering.

Master in Nanoscience-nanotechnologies (N²)

Classes in English
2 semesters
Enrolment: between February and June

Nanoscience • Nanotechnologies • Physics • Chemistry and biology • Engineering of micro and nanostructures.

► Erasmus Mundus Program. Experimental studies (except training period). Networking with Grenoble laboratories in nanosciences (CEA, CNRS, ESRF...). Courses associated with high level scholarships.

Master in Micro and nanotechnologies for integrated systems (NANOTEC)

Classes in English
4 semesters
Enrolment: May 31st

Micro and nanotechnologies • Physics of technological process • Computer sciences • Telecommunications • Physical models for micro and nanosystems and nanostructures • Integrated systems.
► **Advanced education program with 3 universities (France, Italy, Switzerland). Very attractive topics and areas of activities. 100% of graduates are active.**

Master in Chemistry

Classes in English
4 semesters
Enrolment: May 31st

Physical chemistry • Engineering science • Polymer for advanced technologies • Bioorganic and bioinorganic chemistry • Organic synthesis for the pharmaceutical and agrochemical industries.
► **Interdisciplinary science connected to life sciences, physics and material sciences. Laboratory training and a 6 month-research project during the second year.**

Master in Materials science for nuclear engineering

Classes in English
4 semesters
Enrolment: July 31st

Science and thermohydraulics energy production • Materials in nuclear environment • Nuclear engineering safety • Nuclear plants • Reactor design.
► **Career opportunities in materials engineering to run power plants, as well as future researches in nuclear materials science, or in design of next generation of reactors.**

Master on Industrial processes automation

Classes in English
2 semesters
Enrolment: May 14th

Multi-objective control and observation theory • Dynamic reconfiguration • Modelling for control, supervision and diagnostic of plants and industrial processes • Optimization and scheduling • Risks analysis • Networks architecture • Safe communication and management of large processes with communication systems.
► **A 5-month internship (industrial or research). Possibility to follow a sponsored semester in a partner American University thanks to the EU/US Atlantis DeSIRE2 Grant Consortium.**

Master in Pulp and paper science

Classes in English
4 semesters
Enrolment: June 30th

Chemistry • Engineering science • Recycling, pulp and paper industry • Papermaking • Physical properties of paper • Bleaching • Economics of pulp and paper.
► **Many partnerships with french and foreign universities and research centres, as well as with significant international paper industry groups.**

Master in Functionalized Advanced Materials and Engineering (FAME)

Classes in English
4 semesters
Enrolment:
January (non European)
and May (European)

Engineering of materials and nanostructures • Materials for micro and nanotechnologies • Hybrid Materials and functional ceramics • Nanomaterials and nanostructured materials • Materials interfaces.
► **Erasmus Mundus Program. Acquisition of a high level knowledge in the field of applied research in Materials Science, proposed by seven universities with strong international partnerships. Access to doctoral studies.**

Master in Geomechanics, civil engineering and risks

Classes in English
2 semesters
Enrolment:
June 9th (1st session),
September 3rd (2nd session)

Mechanics • Energy and engineering • Civil engineering • Geotechnical engineering • Environmental engineering • Solid mechanics • Engineering geology.
► **Courses with internationally renowned lecturers. A semester individual research project. Access to doctoral studies.**

Master in Earthquake Engineering and Engineering Seismology (MEEES)

Classes in English
2 or 3 semesters
Enrolment: December (non European) and April (European)

Geophysics • Geomechanics • Engineering seismology • Structure dynamics • Natural risks.
► **Erasmus Mundus Program. A 6-month research internship. International contributors and partnership with several organisms (IRD, CEA, EDF...). Courses associated with high level scholarships.**

Master in Earth universe environment (HYDROHASARDS)

Classes in English
3 semesters
Enrolment: April-May

Hydrological and meteorological hazard • Climate change • Risk anticipation and management
• European and mediterranean areas.

► Access to doctoral studies. Joint diploma awarded by University of Thessaly (Greece)

Master in Urbanism, habitat and international cooperation (URBANO)

Classes mainly in English
2 semesters
Enrolment: December 1st (non European) and
31st March (European)

Urban social challenges • Community development • Urban governance • Strategic planning
• Decentralized cooperation.

► Erasmus Mundus program. Students may take part in summer schools organized by the consortium partners or other cooperating partners.

Master in European studies

*Classes in French,
partly in English*
2 or 4 semesters
Enrolment: April 28th

Europe • European Union • European governance • Integration and civil society • Lobbying
• European law • Economics.

► This Master provides training towards public and private careers in the field of construction of the European Union: european civil service, surveys and expertise, lobbying.

Master in International organisation

*Classes in French,
partly in English*
4 semesters
Enrolment: April 28th

International organisations • Governmental and non-governmental strategy • Analysis
management • Conflicts/peace • Economical, ecological, humanitarian and sanitary sectors.

► A minimum 5 months compulsory internship in an IGO, NGO, diplomatic delegation or multinational company. Possibility of studying abroad during the semester 1 (about 100 partner universities). Links with some IGO and NGO.

Undergraduate program in skills for international cooperation projects

Classes in English
2 semesters
Enrolment: June 30th

Project Manager • Assistant Project Manager • Project Director • Development Officer • Team
Leader • International Consultant.

► Preparing for enrolment in the Masters' degree programs. A panel of international consulting firms participates in the training and facilitates job accession thanks to practical training and internships from 3 up to 17 months.

Undergraduate program in International management

Classes in English
2 semesters
Enrolment: from March 15th
to July 10th

International management • Marketing • Finance • Management of international projects
• International negotiation.

► Preparing for enrolment in the Masters' degree programs. Included comprehensive course of study, case studies, projects and business game aiming at developing international business and management skills, foreign language and cross cultural competences.

Master in International management

Classes in English
2 semesters
Enrolment: from March 15th
to May 7th

International management • Marketing • Finance • Management of international projects
• International negotiation.

► Included comprehensive course of study, case studies, projects and business game aiming at developing international business and management skills, foreign language and cross cultural competences, a six-months internship for an immersion in the global business environment.

Master in International communication and management

Classes in French
4 semesters
Enrolment: April 28th

Communication science • Corporate communication • Intercultural management • Human
resources management.

► Specific pedagogy adapted to international students (special tutoring during lectures and placement period).

Master in Corporate communication

Classes in French
2 semesters

Professional and international orientations • Continuing education • Corporate communication.
► Program entirely held abroad in the partner institution (209 contact hours during the 1st semester, 2nd semester dedicated to a work placement or to a research dissertation).

Master in Responsible design

Classes in English
1 semester (february-june)
Enrolment: May 1st

User centred design • Sustainable design • Inclusive design • Ethics and responsibility.
► A full project semester (open to students with a solid academic background in engineering) in which international student teams have to design innovative concept of responsible products to face challenge presented by industrial partners. Open to international students with a 2-year master's program.

Master in International Security and Defense

Classes in English
Opening in september 2011

International security and politics • International security and law • International security and economics • Economics intelligence • Conflicts and war • Geopolitics • Gender and conflicts • World Arms industries • Humanitarian politics • Sustainable development and international law.
► Program taught by distance learning.

SUMMER PROGRAMS

Nano and Micro technologies

Classes in English
A 4-weeks program
Enrolment: may

Nanoelectronics • Nanophysics • Nanobiosciences • Physics • Nanomagnetism • Nanostructures • Magnetic memories • Microwave devices.
► This Summer Program is open for students in physics and applied physics (3rd year undergraduate and graduate). This program will constitute an excellent introduction to the diversity of this promising area for students with a bachelor level in fundamental or applied physics.

Signal and Image Processing for Geoscience and Remote Sensing

Classes in English
A 4-weeks program
Enrolment: may

Digital signal and image processing • Practical application of theoretical concept, general signal and image processing concepts.
► Open to 3rd year undergraduate and graduate. Notions on mathematical analysis, algebra and physics. Program in association with Gipsa-lab (Grenoble Images Parole Signal Automatique).