

Catalogue of semesters taught in English at Université de Lorraine

2026-2027



WE ARE INTERNATIONAL

Université de Lorraine has developed a large range of international activities, including student exchanges, shared degrees, research collaborations and staff mobility, working hand in hand with partners all around the globe. With its 10,000 international students, Université de Lorraine is the leading French university regarding Erasmus mobility.

MAKING LIFELONG LEARNING JOURNEY REAL

Embracing all forms of knowledge, Université de Lorraine provides its 60,000 students with programs in every field, from undergraduate to postgraduate degrees and PhD. We offer tailored solutions to suit everyone's lifelong learning journey.

ENCOURAGING STUDENT ENTREPRENEURSHIP

Université de Lorraine provides a global approach aimed at stimulating entrepreneurship among its students.

BUILDING A STIMULATING ENVIRONMENT DEDICATED TO PHD STUDENTS

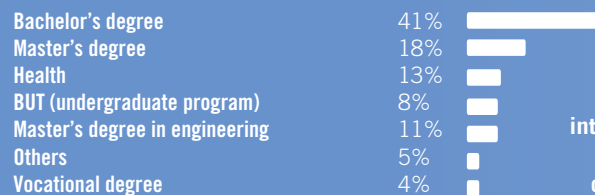
Université de Lorraine has built a blossoming PhD scene. **1,800 PhD students, 90 different nationalities, more than 400 PhD theses** defended each year.



Université de Lorraine is located
in the North-East of France
and is spread over several
campuses in **2** metropolises

11 towns and cities

PROGRAMS BY ENROLMENT



60,000
students

over **9,500**
international students

over **1,000**
outgoing students

over **1,900**
PhD students

over **250**
facilities



over **7,100** academic and administrative staff

1st university
in France in terms of
entrepreneurship

60 research units
including
28 joint units

INSERTION RATE

after

a vocational degree	92%
a master's degree	91%
a master's degree in engineering	98%
a PhD	92%



Contact:

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COMPUTER SCIENCE

Internet systems and security



**TELECOM -
Nancy**

1 semester

Master

30 ECTS

This major aims at training computer engineers to gain high adaptability skills, as the ability to design and install a business network infrastructure and its associated software, to secure and ensure a high performance exchange of data.

Information systems for the intelligent enterprise



**TELECOM-
Nancy**

1 semester

Master

30 ECTS

This major aims at training computer engineers in the analysis, design and development of information systems for enterprises of different sectors, from business to industry. By analysing data and processes, information systems provide overviews of different levels of granularity of business activities. This set of courses offers modules on industrial artificial intelligence, business intelligence, industry 4.0 and ERP systems.

Artificial intelligence and big data



**TELECOM -
Nancy**

1 semester

Master

30 ECTS

This major aims at training computer engineers on how to understand specific problems related to a profession, in order to elaborate and implement an analysis process using complex and potentially voluminous data. This specialisation offers modules on artificial intelligence, data mining, statistics, data visualisation and tangible projects with real data.

Digital Web



**IUT Saint-Dié -
Saint-Dié**

6 months

Bachelor
universitaire de
technologie

30 ECTS

In this academic program, students will immerse themselves in the latest technologies and methodologies, merging cutting-edge computer science with essential communication skills and fundamental mathematics. They will explore the intricacies of web architecture and web services, learning to design scalable and efficient systems that power the modern web. Additionally, they will delve into interactive web rendering, unlocking the secrets of creating immersive and engaging user experiences. They will enhance their global readiness with modules on intercultural communication and business English. They will also strengthen their problem-solving abilities with optimization techniques and automata and languages. It includes an internship in a company.

NLP (Natural Language Processing)



IDMC - Nancy

2 years

Master

60 ECTS

NLP: AN EXPLODING AND FASCINATING AREA OF SCIENCE, OFFERING MANY CAREER OPPORTUNITIES IN MANY SECTORS SUCH AS INDUSTRY, RESEARCH, EDUCATION...

The goal of NLP is to produce a computational model which simulates our ability to speak and understand « natural » languages such as English, French or Russian as opposed to artificial languages such as programming or mathematics. With the proliferation of digital data, there is a massive need for well-trained engineers and researchers able to exploit this data for commercial (e-commerce, recommendation systems, automatic summarization, multilingual translation, etc) and socio-political (e-learning, opinion mining, behavioral prediction, etc.) purposes.

ENGINEERING

Renewable Energy Engineering



ENSEM - Nancy

1 semester

Non-graduating
master level

30 ECTS

WIND, SOLAR, HYDROGEN, HYDROPOWER: you'll acquire scientific and technical knowledge on renewable energy, electrical and mechanical energy storage, control, smart and micro energy grids. You'll have access to specialized equipment: fuel cells, solar panels, wind turbines, hydropower turbines, grid converters, electric machines, micro-grids.

Innovative products: from chemistry to processes



ENSIC - Nancy

1 semester
Autumn (September 1st
to December 20th)

Master 2

30 ECTS

This semester presents a course that integrates, within a multidisciplinary and multi-scale approach, the design, formulation, and engineering of product development to achieve the desired functionalities.

Processes for Energy and the Environment



ENSIC - Nancy

1 semester
Autumn (September 1st
to December 20th)

Master 2

30 ECTS

This semester focuses on the development and extension of methodological aspects of Process Engineering to complex, multiphase, and multi-component systems. Particular attention is paid to sustainable processes and processes developed in the energy sector.

Wood sciences and technology



ENSTIB - Épinal

2 semesters

Master

30 ECTS

SEMESTER 1: AUTUMN-WINTER SEMESTER / WOOD FOREST SECTOR / WOOD MATERIALS COURSE

SEMESTER 2: SPRING-SUMMER SEMESTER / GENERAL USE OF WOOD

ENSTIB (School of wood science and timber engineering) offers foreign students two international courses on the theme of "Wood Science and Technology". ENSTIB is the only public engineering school to offer semesters preparing general engineers and researchers to take on the challenges that the wood and forestry sectors, and natural fibres industries face. ENSTIB's constant collaboration with research laboratories, technical transfer centres and industries on Campus makes it a catalyst for innovation.

Mechanics Materials Processing Structure



UFR MIM - Metz

1 year

Master 2

60 ECTS

This master's in Metz (MIM, ENSAM) and Nancy (Lorraine INP: Polytech, ENSEM) trains students in metallurgy, materials processing, and mechanics. The curriculum includes high-level research training in innovation: multi-materials, smart/additive manufacturing for the industry of the future.

Applied Mechanical Engineering



ENIM - Metz

1 year

Mixed

60 ECTS

During one or two semesters, students can choose from lectures in biomechanics, industrial engineering, energetics, electrical engineering, and materials science. Each semester is worth up to 30 ECTS.

BIOWARE:

BIOfinery Engineering of Wood and Agro-RÉsources



**ENSTIB - Épinal
ENSAIA, ENSIC -
Nancy**

1 year

Master 2

60 ECTS

Our planet is facing up the depletion of fossil resources while the overall demand of biomass for food and energy is continuously increasing. For one decade, biomass is considered as an alternative energy source contributing to reduce greenhouse effect. Biomass is also a renewable source of proteins, sugars, and fats, which lead to valuable green chemicals, pharmaceuticals, biosourced materials, i.e. to any bio-wares. Biorefinery engineering consists in designing biomass transformation processes to replace conventional chemical transformation.

The master programme offers skills in biorefinery engineering, while accounting for bioeconomy requirements, for sustainability of the agro- and wood resources and soil availability.

Three graduate engineering schools specialised in agricultural sciences, food, chemistry, wood engineering as well as biotechnology share their expertise and their research laboratories in the field of biorefinery to propose a programme combining advanced research and applications.

Nature-Based Solutions in Anthropized Environment: From innovation to implementation



ENSAIA - Nancy

3 months
6 months
1 year

Engineering
postgraduate
courses (non-
graduate)

10 ECTS
30 ECTS
60 ECTS

Postgraduate program dedicated to Environmental Sciences and Engineering that will develop your skills and knowledge to diagnose, manage and reclaim anthropized ecosystems (urban, industrial & mining areas)

3 options:

- **Spring School** (from April to June): 10 ECTS
 - Basic Knowledge to diagnose and manage the Quality of various ecosystems (watercourse, ecotoxicology, soil pollution)
 - Work Situations through projects management
- **Full Semester** (from September to March): 30 ECTS
 - Advanced Expertise in Environmental Science and Engineering
 - Urban Agriculture, Restoration of Degraded Lands, Ecotechnology
 - Data analysis, GIS, Life Cycle Assessment
 - Various projects related to Nature Based Solutions in Urban Design
- **Full Year** (from September to August): 60 ECTS
 - Full Semester Program + 6-months Internship in one of our Local Start-ups

(Agromining, Urban Design, Restoration of Degraded Lands, Circular Economy)

Energy Mechanical Engineering Material Science and Environment



POLYTECH - Nancy

1 year

Bachelor

60 ECTS

Polytech Nancy offers courses taught in English as part of the EMME programme during the first year of the engineering cycle (equivalent to the final year of a Bachelor's degree).

The curriculum includes subjects such as Advanced Mathematics, Statistics, AI in Engineering, Fluid and Solid Mechanics, Interference and Diffraction, Laser and Applications, and Heat Transfer.

Students also take courses in Entrepreneurship and Corporate Law, with the possibility of participating in an Industrial Project.

Supervised Projects during an International Exchange Semester



POLYTECH - Nancy

1 semester

Bachelor or
Master

30 ECTS

As part of the International Exchange Semester at Polytech Nancy, students have the opportunity to take part in supervised projects that combine academic learning with real-world application.

These projects are an excellent way to deepen your knowledge, improve your communication skills, and explore interdisciplinary topics.

GEIR (Geology Energies & Reservoirs Engineering) of Master STPE (Earth, Planetary and Environmental Sciences)



ENSG - Nancy

1 year

Master

60 ECTS

M2 GEIR aims to train students in two areas of competence:

Geology of Energies (GE) - characterization and geological analysis of reservoirs of energy, taught in French.

Reservoir Engineering (IHR) - hydro-thermodynamic processes during the exploitation of underground resources of energy and gas storages, their physical base, mathematical description and numerical simulation, taught in English.

Biomechanics



ENIM - Metz

1 year

Master 2

60 ECTS

The aim of the programme is to enable students to gain knowledge about the biomechanics of the musculoskeletal system and more specifically about the development of patient-specific medical devices. They will be able at the end to propose reliable biomechanical solutions to a given clinical issue.

NATURAL SCIENCES



RNA and Enzymes Sciences

FST - Nancy

2 semesters

The second year of the master is in English

Master

60 ECTS

Lorraine University in Nancy, France, offers an international teaching program in English in the field of RNA Molecular Biology and Enzymology. The primary goal of this Master 2 program (second year of master) is to provide a unique opportunity to study these molecular aspects of cellular metabolism with experts in the field.

The Master 2 program "RNA/Enzymes Sciences" RNAES is underpinned by high-standard scientific environment provided both by the BioPole of Lorraine University and by associated and partner labs in close proximity to Nancy.

The students will acquire both theoretical and practical knowledge in biochemistry, molecular and cellular biology of RNAs and protein enzymes.

PT Forests and their Environment (FEN)



FST - Nancy

2 semesters

Master

60 ECTS

This program offers a broad perspective and in-depth training on the functioning and dynamics of European forests, providing a basis to address challenges arising from environmental constraints and forest sustainable management in a context of global environmental changes.

ECONOMICS

Financial Engineering and Markets (IFM)

DSEG Nancy

1 semester

Master

37 ECTS

This second-year Master's programme provides advanced training in market finance, quantitative methods and programming. Fully taught in English, it prepares students for careers in financial risk analysis, portfolio management, financial economics, data science and international finance.



MANAGEMENT

MAE Sustainable Corporate Management

IAE - Nancy

4 semesters

3 theoretical semesters
4th semester: Internship

Master

120 ECTS

The MAE Master in Sustainable Corporate Management (SCM) is a 2-year program fully taught in English and offered by the IAE Nancy School of Management at Université de Lorraine. This program provides students with a comprehensive understanding of key management disciplines and combines theoretical and practical approaches, with a strong focus on sustainability. The program is open to students from various academic backgrounds and from any country. It is specifically designed for individuals with prior education in fields such as engineering, science, law, social sciences or humanities and provides a valuable opportunity to enhance their expertise with essential management skills. The program welcomes applicants who hold a minima a bachelor's degree (or equivalent of 180 ECTS), master's graduates and professionals in continuing education.



ERASMUS MUNDUS

EMERALD



ENSG - Nancy

1 semester

Master

30 ECTS

The EMerald master in georesources engineering aims to train a new generation of engineers with an entrepreneurial mind-set, capable of identifying and sustainably managing the mineral and metal resources that are essential for the green energy transition. With a unique position at the interface between Earth Sciences and Engineering, the goals of the Master formation is finding new, innovative solutions to secure the sustainable supply of raw materials across the value chain: from exploration, mining and extraction, to mineral processing, recycling and the movement towards a circular economy

GREENANO



ENSMN / FST - Nancy

4 semesters

Joint Master

120 ECTS

GREENANO (Nanomaterials for Green & Digital Transition) is aimed at **preparing highly skilled experts who will be able to tackle the challenges of green and digital transitions.**

Our objective is to train students with a high level in Materials Science, Engineering and Physics with a focus on the phenomena occurring at the nanoscale. Hence, the students will have the necessary background to participate in either the discovery or the production of always more performant energy and electronic devices.

DENSYS 2.0



FST - Nancy

4 semesters

Joint Master

120 ECTS

Erasmus Mundus Joint Master Degree DENSYS 2.0

is a collaborative two-year joint master degree programme dedicated to the Decentralised Smart Energy Systems, supported by the European Union and developed in collaboration by:

- University of Lorraine (Nancy, France) - Coordinator
- KTH Royal Institute of Technology (Stockholm, Sweden)
- Polytechnic Institute of Torino (Torino, Italy)
- Universitat Politècnica de Catalunya (Barcelona, Spain)

DENSYS also involves 12 associated partners to broaden students' perspectives: major industrial groups, start-ups and spin-offs, academic partners such as ESADE Business School and the University of Liège (Belgium), ETH Zurich (Switzerland), a regional research center, and an association of European research organizations.

DENSYS aims to train engineers and researchers who not only excel in designing innovative energy systems but also grasp the human and societal dimensions of sustainability. By combining fundamental knowledge acquisition, key energy transition technologies, extensive exposure to the humanities, diverse educational pathways, specialization opportunities, challenge-based learning, practical experience, mobility, and cultural exchange, the program empowers its graduates to drive the global transition towards a sustainable and carbon-neutral future.

The program follows a mobility scheme, beginning with two semesters at UL in France, followed by a specialized third semester in one of three distinct domains (at UPC Barcelona, Track in Thermal Energy; at POLITO Turin, Track in Power-to-X; at Inno KTH Stockholm, Track in Decentralised smart energy systems in a global energy system) and concluding with a Master's thesis in the fourth semester.

Reasoning in Natural Language Processing EMLex



IDMC - Nancy

4 semesters

Master

120 ECTS

The Natural Language Processing Master **EMLex** is an international Master's degree programme that

- promotes the international and interdisciplinary training of lexicographers
- teaches lexicographical theories on a high international level
- includes a distinct connection to the practical application of dictionary creation
- brings together students from all over the world

FOREIGN LANGUAGES

Foreign Languages and International Affairs (LEAI)



UFR ALL - Metz

2 years

Master

60 ECTS

To train executive-level professionals for managerial positions in the international sectors of banking, international trade, marketing, business administration and human resources. These positions require skills in English and one of the following foreign languages: German, Spanish, Italian or Chinese.

Translation Technologies (TeTra)



UFR ALL - Metz

2 years

Master

60 ECTS

The Master's TeTra has been awarded the EMT(European Master's in Translation) label, recognition by the European Commission of the quality of the training offered. The training objectives, expressed in terms of skills to be acquired, reflect the main skills established by the EMT group of experts. These skills are organised into five major areas of competence. These positions require skills in English and one of the following foreign languages: German, Spanish or Italian.

Applied Foreign Languages



UFR ALL - Metz

3 years

Bachelor

36 ECTS
(minimum)

This program is taught in English and one of the following foreign languages: German, Spanish, Italian or Chinese. Courses in grammar, professional communication, civilisation, business culture, etc. are taught in the foreign language. In addition to these, there are a number of applied subjects taught in French: economics, law, business, digital and strategic marketing, to prepare students as effectively as possible for the world of business. In L3, all students must complete an 8-week work placement, for which they must write a report and give an oral presentation in language A or B.

English for Professional Purposes



UFR ALL - Nancy

1 year

University
Diploma for
students at
BAC+2 or
equivalent

The DULASP programme, available in Intermediate (B1-B2) and Advanced (B2-C1) levels, provides students with the opportunity to work on English for the professional world. The focus is on practical language skills and professional communication strategies, preparing students to communicate confidently and competently in various workplace settings. The DULASP contains six modules working on the four main skills of professional English: reading, writing, speaking and listening. The courses are taught in English, generally by English native speaker teachers.

ENCOURAGING STUDENT MOBILITY

KEY FIGURES		
10,000 international students	160 nationalities	201 – 300 Shanghai Ranking 9 – 11 top french universities
16% of our students are internationals	500 International partnerships (Except Erasmus +)	1,400 Erasmus + agreements

UNIVERSITÉ DE LORRAINE'S CORE VALUES



Universality



Creativity



Reflexivity



Solidarity



Responsibility



Our website :



Useful information :

