

Developing talents to promote a creative and responsible chemistry in an international context



The ECPM,
a department of the

University of Strasbourg



University of excellence
35 departments & institutes
70 research centers
57 000 students
20% international students
5 300 academic
& administrative staff

5 centuries of excellence

1538

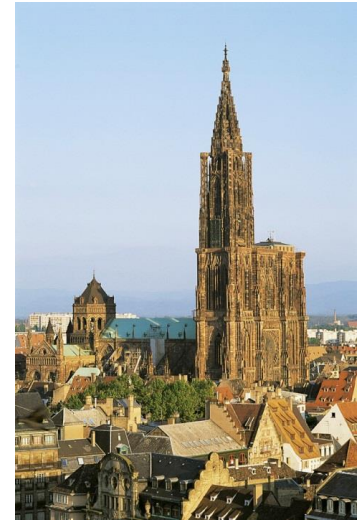
Origins of the University of Strasbourg

Since the 17th century

Becoming a strong intellectual center in Europe, the University experienced **three centuries of bicultural development** while being moved back and forth between France and Germany.

2009

After being divided into three universities (1968), rebirth of the University of Strasbourg, a pioneering example of merging universities in France.



A wide range of training programs covering all disciplines

ART, LITERATURE, LANGUAGES, VISUAL ARTS

Performing Arts Cross-
Culturality and Languages
Foreign Languages World
Literatures and Civilizations
Applied Foreign Languages
French Language and
Literature
Music
Language sciences

LAW, ECONOMICS, MANAGEMENT, POLITICAL AND SOCIAL SCIENCES

Economic & Social
Administration, Accountancy,
Management
Public Administration, Local
and regional authorities
Business Communication
Law
Economics & Management
Mathematics & Economics
Political Science

SOCIAL SCIENCES AND HUMANITIES

Archeology
History
Art history Geography
Urban planning Journalism
Philosophy Psychology,
educational sciences Social
Sciences Physical Activity
Studies
Catholic Theology
Protestant Theology

SCIENCES, TECHNOLOGY, HEALTH

Chemistry
Materials Mathematics
Computer Sciences Physics
Engineering Science Life
Sciences Biotechnology
Earth sciences
& environment

4 High level well-equipped campuses

100 buildings on **4** campuses : Central, Medicine, Illkirch, Cronenbourg



A research actor at international level

5 Nobel prizes in Chemistry / Medicine in activity

Jean-Pierre
SAUVAGE

Chemistry (2016)
ECPM (1967)



Martin KARPLUS
Chemistry (2013)



Jules HOFFMANN
**Physiology /
Medicine** (2011)



Jean-Marie LEHN
Chemistry (1987)



Richard SCHROCK
Chemistry (1985)



1 Kavli prize: Thomas EBBESEN / Nanosciences (2014)

4 CNRS Gold medals (French National Centre for Scientific Research)



The ECPM, an international engineering school



Department of the University of Strasbourg

~450 students

20% international students

40 teachers-researchers

6 research laboratories

Accredited by the



« Commission des Titres d'Ingénieurs »



Engineering degree is ISO 9001 certified since 2019



International Integrated
Preparatory Cycle (Chem.I.St)

-> initial general scientific training

Chemistry Engineering Programme

ChemBioTech Engineering
Programme

Chemistry and Circular Economy of
Plastic Materials

-> apprenticeship
engineering program

The ECPM:

4 training courses

6 research laboratories

Established in 1919

Connected to research

Connected to industry

Open to the world

Specificities of the engineering school

A French Engineer is trained in a « Grande école » :

- specialised higher education institution (chemistry, business, political sciences...)
- Selective recruitment process

Engineer = scientist with managerial / executive role


Specificities of the engineering school

CONNECTED TO THE INDUSTRY



- Industrial partners
- Compulsory internships
- Student-company projects
- Lectures by industry experts
- A strong alumni network...

OPEN TO THE WORLD



- 20% of foreign students (25 nationalities)
- Courses taught in English/German; French lessons for foreign students
- Numerous exchange possibilities for our students
- Interculturality ...

Study organisation

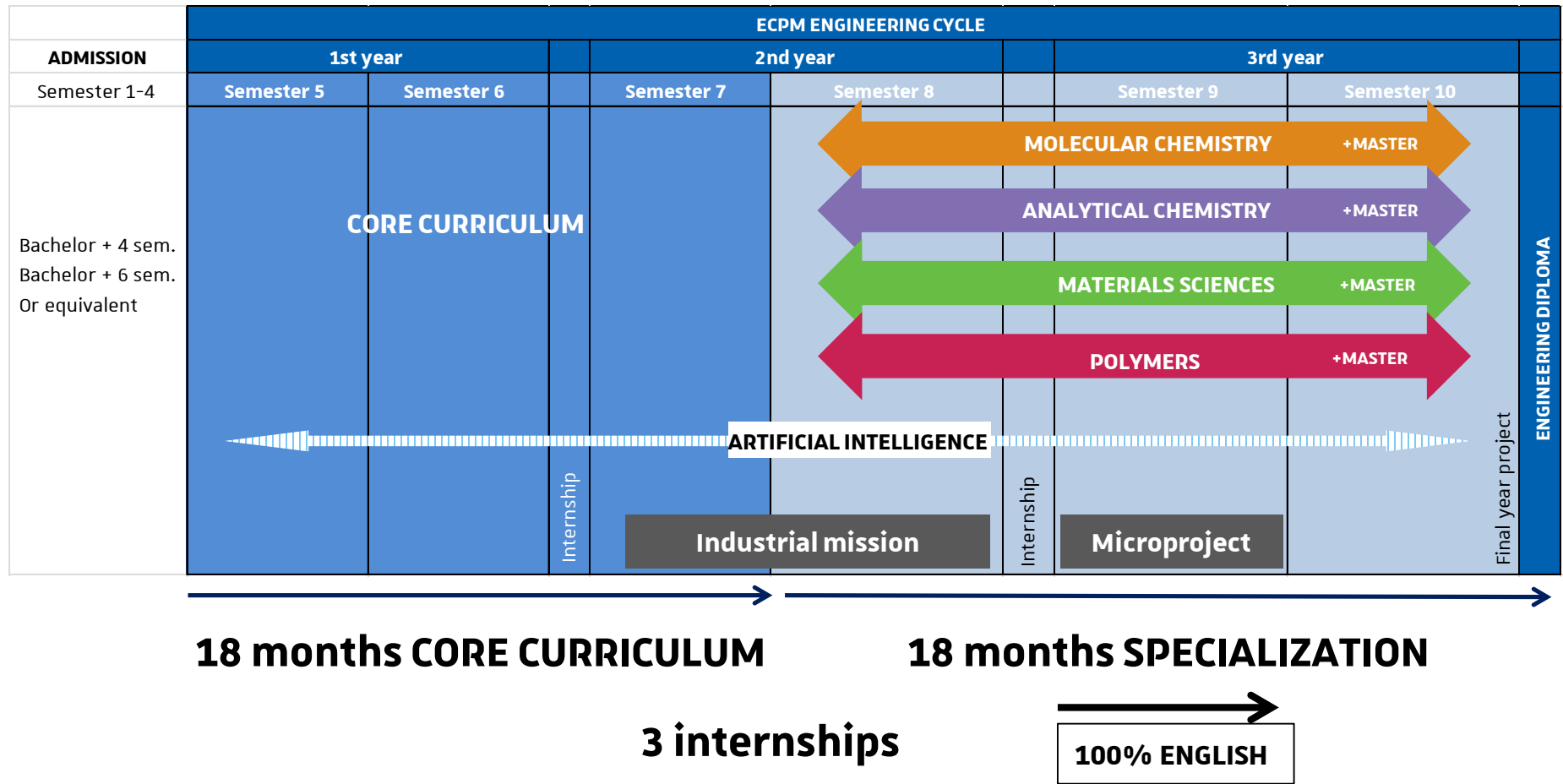
Europe							
BACHELOR			MASTER		PHD		
S1-2	S3-4	S5-6	S7-8	S9-10	S11-12	S13-14	S15-16
ECPM: Integrated Preparatory Cycle (4 semesters)		ECPM: 3 engineering programmes (6 semesters)					

Other Chemistry Schools



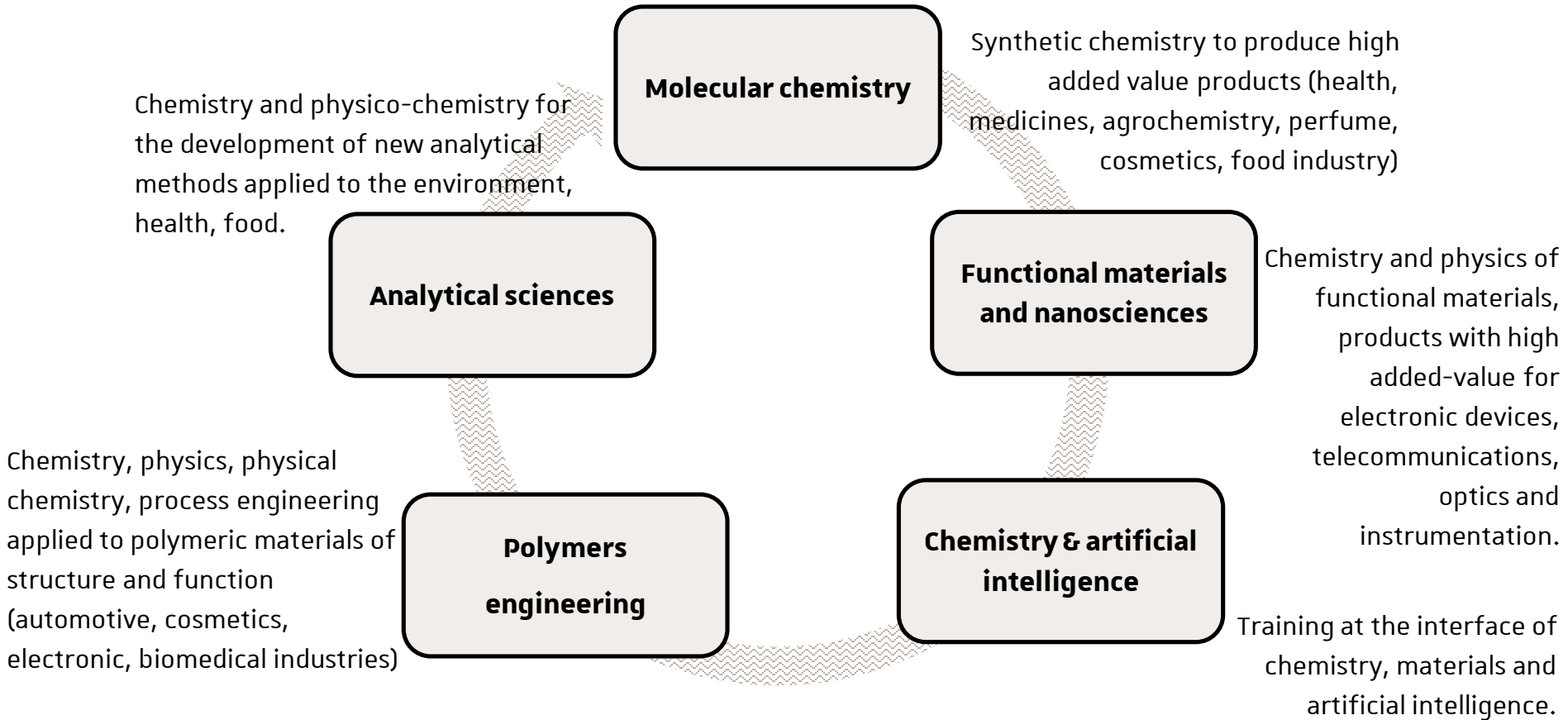
Preparatory Classes
Bachelor of Science
Bachelor of Technology

- Chemistry engineering programme (~100 students)**



- ChemBioTech engineering programme (~25 students)**
similar organization, without specialization

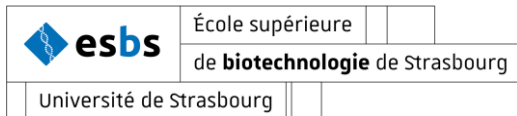
- # Chemistry engineering programme: 5 specialisations



- # ChemBioTech engineering programme



Interface between chemistry and biotechnology in production, research, innovation and development in the health and environment sectors.



- **Chemistry and circular economy of plastic materials (~15 students)**



- Starting in 2024-2025
- In collaboration with Polyvia formation Grand-Est
- Circular economy of plastics is an urgent question for industry (400 million tons of plastic waste per year, 9% recycled)
- Apprenticeship over 3 years
 - 1st year: 21 weeks courses + 31 weeks in the company
 - 2nd year: 21 weeks courses + 31 weeks in the company
 - 3rd year: 12 weeks courses + 40 weeks in the company
- Scientific teaching: engineering macromolecular sciences, polymer chemistry, recycling process, analytical chemistry...
- Professional training and English

ECPM welcomes exchange and double-degree students

BACHELOR			MASTER		PHD		
S1-2	S3-4	S5-6	S7-8	S9-10	S11-12	S13-14	S15-16
		ECPM					

>>> 1 year: Simple Exchange at the Master level

Semester 9 (courses, 100% in English) & semester 10 (research)

BACHELOR			MASTER		PHD		
S1-2	S3-4	S5-6	S7-8	S9-10	S11-12	S13-14	S15-16
		ECPM					

>>> 2 years: Double diploma

Semesters 5 to 8 or Semesters 7 to 10 (requires B2 level in French)

Your stay at ECPM: 1 or 2 semesters

Sept-Jan →

S9: COURSES

to be chosen

amongst 4 specialities:

- Molecular chemistry
- Analytical sciences
- Polymers engineering
- Functional materials and nanosciences

Possibility to apply for an excellence scholarship (5 months)

Feb-July →

S10: INTERNSHIP

in an ECPM-laboratory

The internship is paid (if > 8 weeks)
~600 €/month

Department of analytical
sciences (DSA)

Department of inorganic materials
chemistry (DCMI)

Laboratory of molecular
innovation & applications (LIMA)

Institute for chemistry and
processes for energy, the
environment and health (ICPEES)

Institut Charles Sadron
-> polymer chemistry

Biomaterials & Bioengineering

The ECPM:

4 training courses

6 research laboratories

*5 associated to CNRS
and 1 to INSERM*

~280 researchers

~150 PhD students

Department of analytical sciences (of the Institut Pluridisciplinaire Hubert Curien) || <https://iphc.cnrs.fr/en/research/>

4 research teams

- Develop new methodologies of separation and analysis for the complete characterization of the structures of molecules
- Study the specific interactions brought into play by ions, molecules and biomolecules in supramolecular complexes.

Department of inorganic materials chemistry (of the Institute of Physics and Chemistry of Materials of Strasbourg) || <https://www.ipcms.fr/en/home/>

3 research teams

- Prepare inorganic materials and hybrid materials for applications in the fields of magnetism, optics, biomedicine and photovoltaics.
- Produce inorganic layers combined with organic molecules, grafted nano-oxides, thin-layer oxides or oxides intertwined with polymers.

Laboratory of molecular innovation & applications ||

<https://lima.unistra.fr/en/>

11 research teams

- develop innovative methods dedicated to molecular synthesis (chirality, glycochemistry, fluorine chemistry, radical chemistry) to validate new therapeutic strategies

Institute for chemistry and processes for energy, the environment and health || <http://icpees.unistra.fr/en/welcome-to-icpees/>

8 research teams, 3 departments

- Catalysis and materials: electrochemistry and energy conversion ; photocatalysis and photoconversion ; energy & fuels; nanomaterials, catalysis & interfaces
- Molecular chemistry & analytics: organic chemistry for materials, biology and optics ; physical-chemistry of the atmosphere
- Polymer engineering: functional polymers & nanofabrication ; biobased and or biodegradable polymers

Institut Charles Sadron (polymer materials and self-assembled systems) ||

<http://www.ics-cnrs.unistra.fr/index-switchlang-en.html>

7 research teams

- Self assembled systems
- Soft matter and interfaces
- Functional macromolecular materials
- Functional aspects of polymer sciences

Unité INSERM 1121 > Biomaterials & bioengineering (INSERM=National Institute of Health and Medical Research) ||

<https://us.biomaterials-bioengineering.com/>

5 research teams

- Personalised & intelligent biomaterials
- Nanobiomaterials: Theranostic biological nanoparticles
- New implants

The ECPM – University
of Strasbourg

welcomes
international
students



International University House & ECPM international office

- Assistance on administrative issues
- Accommodation: room/apartment for each incoming international student
- French courses
- Integration programs for exchange students at ECPM and at university level
- Welcome day
- Cultural activities
- ...

<https://www.unistra.fr/etudiant-chercheur-etrangers/the-international-university-house>

<http://ecpm.unistra.fr/en/international/studying-at-the-ecpm/>

As a student of the University of Strasbourg, you may benefit from

- University Health Service
- Food & drink (lunch/diner: 3.30 €)
- Culture (free entry to museums, discount cinema tickets preferential rates for cultural events and festivals)
- Sports (60 different activities)
- Learning resources (computing services, libraries ...)
- ...



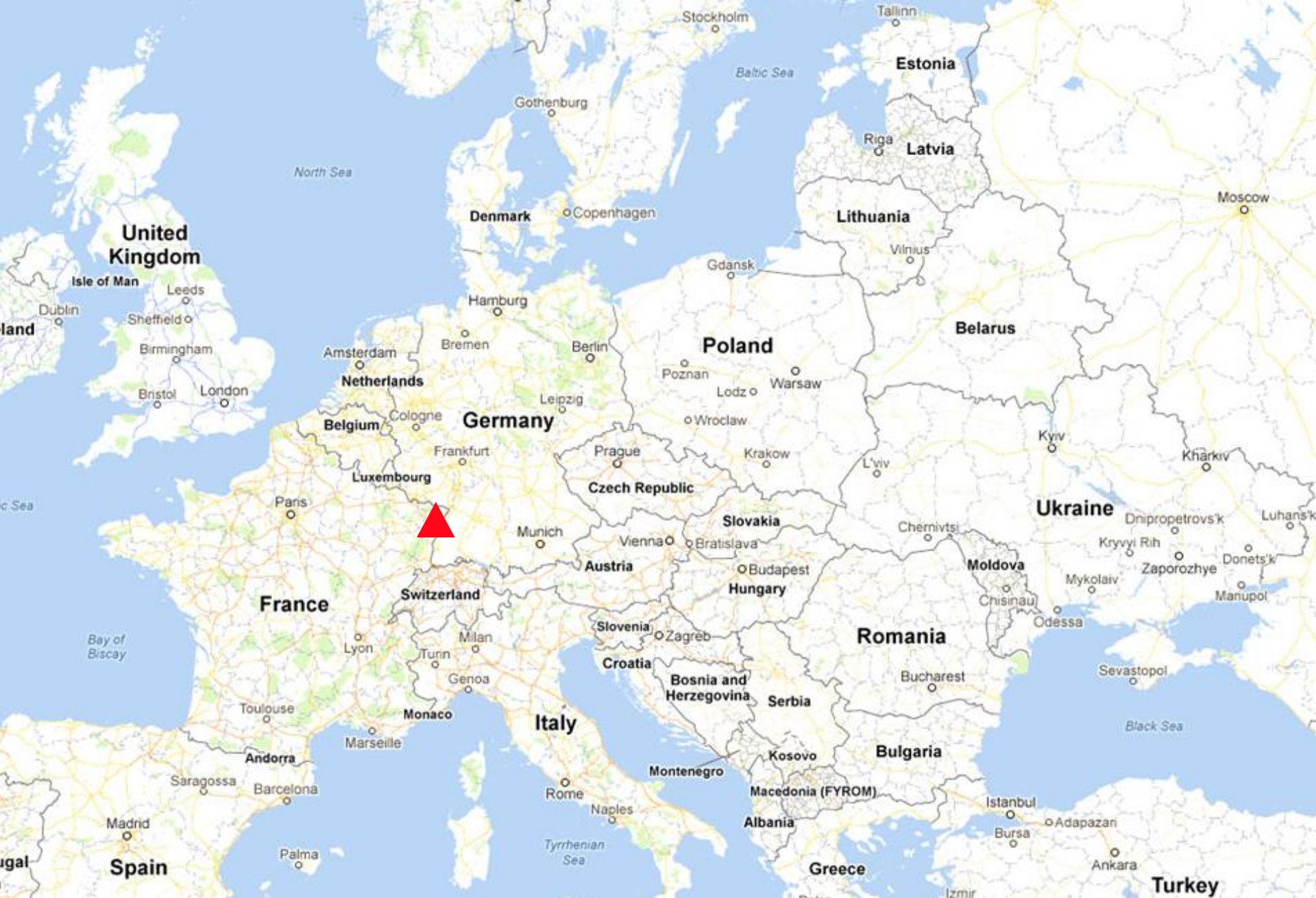
Video: Studying at the University of Strasbourg

<http://www.unistra.fr/index.php?id=27112>

City of Strasbourg



- 500.000 inhabitants
- Border with Germany
- At the heart of Europe
 - 1h45 -> Paris
 - 2h30 -> Francfort
 - 1h15 -> Basel



Strasbourg, an easy living city

A pioneer city in terms of respect of the environment
The city of bicycles, trams and pedestrians



© J. Dorkel



© Tschapp



@ Philippe de Rexel

LA PETITE FRANCE



@Jean Valera

CITY CENTRE



@ Sébastien Bozon | AFP

EU-PARLIAMENT

Université de Strasbourg



© Martin Savail / Pokaa

MAGNOLIA TREES



@Vincent Schneider

VOSGES MOUNTAINS AND VINEYARDS



@Webcam gerardmer-ski

SKIING IN THE VOSGES MOUNTAINS

Thank you for your attention!

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