The Center for Applied Linguistics (CLA, Centre de linguistique appliquée) at the Université de Franche-Comté, in association with Campus France, offers a program of language, cultural, and scientific immersion on the topic of microtechnology and biomedical engineering in partnership with ISIFC, a school of biomedical engineering; the university’s faculties of medical and pharmaceutical sciences and of natural and technical sciences; U-SPORTS; and the Innov’Health and PMT microtechnology clusters.

Designed for English-speaking students, the program includes guided tours of state-of-the-art companies and laboratories, lectures in English on current and upcoming issues in the engineering professions, classes in French as a foreign language (FLE), and a wide range of excursions and discovery activities.

CLA – Center for Applied Linguistics, internationally recognized

CLA, founded in 1958, was one of the first university language centers to develop a program of practical foreign language training based on linguistics research applied to education and on active learning methods: language labs, a focus on communication skills, self-teaching, and learning through immersion. About 4,000 students come to CLA each year from all over the world.

CLA is a member of CampusFLE, a group of university-based French-language centers devoted to promoting French as a language of study in academic training programs.
**COURSE CONTENT**

**30 HOURS PER WEEK**

- **French as a foreign language – 15 hours per week**
  - Acquisition of oral and written communication skills;
  - Development of intercultural competence.

- **Microtechnology and biomedical engineering – 15 hours per week**
  - Introduction to the faculty and facilities of the Université de Franche-Comté in the field of microtechnology and biomedical engineering;
  - Participation in conferences and scientific debates;
  - Visits to state-of-the-art companies combining microtechnology and biomedical applications;
  - Cultural tours.

**Student performance will depend on 3 points:**

- Quality of the student’s weekly journal and subsequent progress report;
- Degree of participation in program activities;
- Progress in French as a foreign language.

*Non-contractual program, subject to change. A minimum of 10 students is required.*

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**Le Grand Besançon (Greater Besançon), a member of the FRENCH TECH network**

Affiliated with the microtechnology competitiveness cluster, Greater Besançon is an industrial ecosystem based on the region’s historical strengths in the field of microtechnology – a large part of them in the health sciences. For a decade, some 300 local companies have been active in the field, most of them enjoying international recognition and support from well-known training and research centers such as EFS (the French blood organization), ISIFC, Femto-ST, LERMPS, Utinam, and the Centre d’Investigations Cliniques.

In 2016, Greater Besançon and the microtechnology competitiveness cluster joined the Health Tech France network (a component of the prestigious French Tech organization) demonstrating the innovative and creative capacity of region’s start-ups in the field of the medicine of the future.

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<th>Duration</th>
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3 weeks program: 6 ECTS credits - 4 weeks program: 8 ECTS credits
MONDAY
> Morning French language study
> Afternoon Tour of Besançon
a city of art and history with a proud heritage, a green city with an exceptional natural environment, a student-friendly city where one in five inhabitants is a student, and a business-friendly city ranked 1st in its category.

TUESDAY
> Morning French language study
> Afternoon Visit to the Université de Franche-Comté
Introduction to the science and technology programs offered in the university proper and its affiliated engineering schools; visits to research facilities.

WEDNESDAY
> Morning French language study
> Afternoon Presentation on the programs of the ISIFC, the Franche-Comté Institute of Engineering
ISIFC trains aspiring biomedical engineers specializing in biomechanics and microsystems, bioengineering, and e-health.
Presentation on Biotika, a company founded within ISIFC in 2006 and integrated into the ISIFC curriculum to enable students to discover all aspects of a biomedical engineer’s job and life in an engineering consultancy firm.

THURSDAY
> Morning French language study
> Afternoon Presentation on the Innov’Health competitiveness cluster led by industry representatives. The cluster’s activities encompass product development and high tech processes related to the medicine of the future: Medical devices and implants; innovative therapies and personalized medicine; e-health and the Internet of Things; the European Silver Economy; well-being and nutrition.

WEEK 1

THURSDAY
> Morning French language study
> Afternoon Visit to STATICE SANTÉ company.
Statice Santé designs and manufactures surgical instruments; silicone implants and other biomaterials; and implants carrying active ingredients, sensors, and micro-dosing functions.

FRIDAY
> Morning French language study
> Afternoon Students prepare their weekly report and meet with a CLA instructor to review and assess progress.

SATURDAY
> Excursion – Discovery of the Burgundy region
Guided tour of the city of Dijon, the regional capital, with its outstanding architectural heritage. Guided tour of the Hospices de Beaune / Hôtel Dieu de Beaune, founded in 1443.

SUNDAY
> Excursion – Discovery of the Haut-Doubs area
Guided tour of the Château de Joux, lunch at a typical Franche-Comté inn, boat trip on the Doubs river, and discovery of the Saut-du-Doubs waterfall near the Swiss border.

MONDAY
> Morning French language study
> Afternoon Presentation on the Innov’Health competitiveness cluster led by industry representatives. The cluster’s activities encompass product development and high tech processes related to the medicine of the future: Medical devices and implants; innovative therapies and personalized medicine; e-health and the Internet of Things; the European Silver Economy; well-being and nutrition.

FRIDAY
> Morning French language study
> Afternoon Students prepare their weekly report and meet with a CLA instructor to review and assess progress.

SATURDAY
> Excursion – Discovery of the Haut-Doubs area
Guided tour of the Château de Joux, lunch at a typical Franche-Comté inn, boat trip on the Doubs river, and discovery of the Saut-du-Doubs waterfall near the Swiss border.

WEEK 2

MONDAY
> Morning French language study
> Afternoon Thematic Conference
Engineering and biocompatible prostheses.
Cochlear implants, lens implants, neuroprostheses. Speaker: Member of ISIFC faculty.

TUESDAY
> Morning French language study
> Afternoon From basic research to industrial partnership: visit to FEMTO-ST, France’s largest engineering research lab.
FEMTO-ST unites engineering and information and communication sciences and technologies. Its research activities often have a socioeconomic impact in sectors such as energy and transportation, health, telecommunications, space sciences, instrumentation and metrology, watch-making, and luxury goods.
**MONDAY**
> Morning French language study
> Afternoon Thematic Conference
Mechanics, electronics, automatic systems – smart structures and systems. Speaker: Member of the Faculty of Natural and Technical Sciences, Université de Franche-Comté.

**TUESDAY**
> Morning French language study
> Afternoon Discovery of IFR, the research institute for cellular and tissue biology and engineering
IFR brings together research units working in biology and health at the Université de Franche-Comté, at the university hospital center, and at the Bourgogne-Franche-Comté office of EFS, the French blood agency.

**WEDNESDAY**
> Morning French language study
> Afternoon DIXI Medical designs, develops, manufactures, and markets medical devices all over the world for use in functional neurosurgery and other purposes. DIXI Medical is a member of the microtechnology competitiveness cluster and of the InnovHealth cluster.

**THURSDAY**
> Morning French language study
> Afternoon Scientific debate: Medicine of the future: virtual or digital, will it remain human?
Students, guided by a PhD candidate and their CLA instructors, will reflect on the debate and present their own views.

**FRIDAY**
> Afternoon Students prepare their weekly report and meet with a CLA instructor to review and assess progress.

**SATURDAY**
> Excursion to Strasbourg

**WEEK 3**

**WEEK 4**

**MONDAY**
> Morning French language study
> Afternoon Career path of a French Tech startup and tour of OneFit Medical, founded in 2011
Onefit Medical’s project focuses on the topic of patient-specific orthopedic surgery using products that can be adapted to any joint.

**TUESDAY**
> Morning French language study
> Afternoon Interactive presentation: Athletic performance and scientific measurement.
The presentation will outline how sports psychology, exercise physiology, and the biomechanical analysis of movement come together to break athletic records.
Speaker: Member of the U-SPORTS faculty at UFC.

**WEDNESDAY**
> Morning French language study
> Afternoon Research and innovation: the EPSI platform.
The EPSI platform (exercise, performance, health, innovation) is a space where academic, hospital, and private-sector partners can meet to conceive and refine research projects that require specific facilities, physiological research equipment, and staff trained in research methods and practices.

**THURSDAY**
> Morning French language study
> Afternoon Scientific debate: Are there any limits to athletic performance?
With the participation of U-SPORTS faculty and students. CLA students, guided by a PhD candidate and their instructors, will reflect on the debate and present their own views.

**FRIDAY**
> Morning French language study
> Afternoon Completion of students’ weekly log
Final meeting with CLA instructor to review and assess student progress.
Farewell party.

**SATURDAY**
> Departure