**BINFO**

* **Degree**: Bachelor in Applied Information Technology
* **Duration:** 3 year full-time programme / 6 semesters (180 ECTS), with 1 mobility semester at a foreign institution and 1 internship.
* **Languages:** English (80%), French (20%)
* **Enrollment fees:**
  + 400€ / semester (1 & 2)
  + 200€ / semester (3 to 6)

### **ADMISSION REQUIREMENTS :**

* Luxembourgish secondary school diploma or foreign diploma [recognised as equivalent by the Luxembourg Ministry of Education](https://wwwen.uni.lu/students/information_by_topic/diploma_recognition)
* Languages: level B2 in English and B1 in French
* Selection based on grades especially in mathematics, informatics, and other natural science or technical subjects

### **STUDY AND CAREER OPPORTUNITIES**

* Network administrator, IT developer, software engineer, webmaster in all business sectors
* Study in the [Master in Information and Computer Sciences (MICS)](https://wwwen.uni.lu/studies/fstm/master_in_information_and_computer_sciences) at the University of Luxembourg

### **APPLICATION**

* [EU students: February - August](https://wwwen.uni.lu/students/application_for_admission/bachelor/ba_european_applicants/bachelor_in_applied_information_technology)
* [Non-EU students: February - April](https://wwwen.uni.lu/students/application_for_admission/bachelor/ba_third_country_national_applicants/bachelor_in_applied_information_technology)
* Admission to the BINFO programme is possible for every candidate with a university entrance degree, sufficient language background (level B1 in French and B2 in English), and motivation for learning about mathematics and computer science. Candidates with excellent mathematical background, but non-sufficient language skills, are nevertheless invited to apply, since specific language courses are offered in the Language Center of the University to help beginner students to improve their language skills.
* **Mobility Semester**

The aforementioned law on the university defines in Art 36 (6) that for Bachelor students a mobility semester in a foreign country is **mandatory** (with only few exceptions for students in special situations). The mobility semester for BINFO students can be chosen as either Semester 3 or Semester 4. For a student doing his/her mobility, the respective regular semester programme is replaced by a list of courses given at the host institution, defined together by the student and the study director before the start of the mobility semester. Technical details are available on a dedicated page on our Moodle platform.

* **Exemption from the semester abroad**

In the following cases, the Dean grants an **exemption** from the mobility requirement after consultation with the Director of Studies:

* in the case of students with an illness that requires special treatment and/or students with a disability that significantly limits their mobility;
* in the case of family commitments which prevent the student from being away from the family for an extended period of time (*Rectorate decision of 8 May 2006*);
* in the case of students from a third country outside the European Economic Area who can provide evidence of a university degree in a country that does not belong to the European Economic Area (*Rectorate decision of 10 July 2007*);
* in the case of proof of employment for the study period of at least 20 hours per week.

### **Students who are exempt from the mobility requirement are:**

* those who can present a degree in which at least 4 semesters of the study period were spent abroad;
* those who have obtained at least 25 ECTS credits at a foreign university, which must be recognised by the Director of Studies (these ECTS credits count for one semester).
* **Contact Information**

A-Prof. Volker Müller (Study Director )

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Phone: (+352) 46 66 44 4913  
Email: sandra.rosin@uni.lu

Programme Academic Year 2022-2023

Version: 1.12.2022

**First Semester Programme** **Total ECTS: 30**

**Module 1.1** (No module compensation) **ECTS: 7**

* Introduction à l’informatique (French and English) ECTS: 4
* Technical English 1 (English) ECTS: 3

**Module 1.2** (Allows compensation) **ECTS: 11**

* Calculus (French and English) ECTS: 4
* Mathématiques discrètes 1 (French) ECTS: 4
* Statistiques (French and English) ECTS: 3

**Module 1.3** (No module compensation) **ECTS: 12**

* Operating Systems 1 (English) ECTS: 4
* Programming 1 (English) ECTS: 8

**Second Semester Programme** **Total ECTS: 30**

**Module 2.1** (No module compensation) **ECTS: 2**

* Technical English 2 (English) ECTS: 2

**Module 2.2** (Allows compensation) **ECTS: 10**

* Linear Algebra (English) ECTS: 4
* Mathématiques discrètes 2 (English and French) ECTS: 3
* Probabilités (French) ECTS: 3

**Module 2.3** (No module compensation) **ECTS: 10**

* Algorithms 1 (English) ECTS: 4
* Programming 2 (English) ECTS: 6

**Module 2.4** (No module compensation) **ECTS: 8**

* Introduction to Graphics (English) ECTS: 4
* Introduction to Data Analysis with Python (English) ECTS: 4

**Note :**

For the student to continue the program, at least **30 ECTS must be earned** at the end of the first academic year. Otherwise, the student will be excluded from the program.

**Third Semester Programme** **Total ECTS: 31**

**Module 3.1** (No module compensation) **ECTS: 9**

* Web Development 1: Front-End (English) ECTS: 5
* Programming 3 (English) ECTS: 4

**Module 3.2** (No module compensation) **ECTS: 8**

* Algorithms 2 (English) ECTS: 4
* Operating Systems 2 (English) ECTS: 4

**Module 3.3** (No module compensation) **ECTS: 6**

* Modelling with UML (English) ECTS: 3
* Software Engineering (English) ECTS: 3

**Module 3.4** (No module compensation) **ECTS: 8**

* Database Management 1 (English) ECTS: 4
* Networks 1 (English) ECTS: 4

**Fourth Semester Programme** **Total ECTS: 30**

**Module 4.1** (No module compensation) **ECTS: 6**

* Psychologie du travail en groupe (French) ECTS: 3
* Droit pour informaticiens (French and English) ECTS: 3

**Module 4.2** (No module compensation) **ECTS: 8**

* Networks 2 (English) ECTS: 3
* Software Engineering Project (English) ECTS: 5

**Module 4.3** (No module compensation) **ECTS: 8**

* Algorithms 3 (English) ECTS: 4
* Database Management 2 (English) ECTS: 4

**Module 4.4** (No module compensation) **ECTS: 8**

* Interaction Design (English) ECTS: 4
* Software Testing (English and French) ECTS: 4

**Fifth Semester Programme** **Total ECTS: 30**

**Module 5.1** (No module compensation) **ECTS: 10**

* Design Patterns (English) ECTS: 4
* Introduction à la vie professionnelle (French) ECTS: 2
* Web Development 2: Back-End (English) ECTS: 4

**Module 5.2** (No module compensation) **ECTS: 20**

Students must choose at least five courses out of all optional courses.

* Banking Information Technologies (English) ECTS: 4
* Big Data (English) ECTS: 4
* Business Software Systems (English) ECTS: 4
* Circuits numériques (French) ECTS: 4
* Cloud-Based Applications (English) ECTS: 4
* Introduction to IT Security (English) ECTS: 4
* Java for Enterprise Applications (English) ECTS: 4
* Parallel and Distributed Systems (English) ECTS: 4

**Sixth Semester Programme** **Total ECTS: 30**

**Module 6.1** (No module compensation) **ECTS: 30**

* Bachelor Project (English) ECTS: 3
* Bachelor Project Defense (English) ECTS: 3
* The Bachelor project realizes an at least 12 weeks long, full time, individual project in the IT domain either done in a professional partner institution (for more professionally interested students) or within a research group of the CS department (for more research-oriented students).
* Students are integrated in a team in the partner institution / research group and shall apply the IT knowledge achieved during their study in a practically relevant (sub)-project in this institution. A Bachelor thesis with a project description, achieved results and practical work experiences made must be written at the end of the project and defended in front of a jury.
* One of the qualifications required to undertake the bachelor project, is that the student must have successfully completed all modules of the first two semesters of the program (in case, successful completion of only a single course of the first two semesters is missing, the Study Director can grant an **exemption** in case the student participates in the exam for this course during the last exam session before the expected start of the Bachelor project).

**Application for Admission at Uni Lu:**

* **Bachelor Program:**

The University of Luxembourg offers 17 Bachelor programmes in three faculties and in different fields:

* Faculty of Science, Technology and Medicine: Biology and Medicine, Computer Science, Engineering, Mathematics and Physics.
* Faculty of Law, Economics and Finance: Economics and Management, Finance and Law.
* Faculty of Humanities, Education and Social Sciences: Behavioural and Cognitive Sciences, Education and Social Work, Geography and Spatial Planning and Humanities
* The admission of any applicant depends on his or her personal situation. In addition, the prerequisites may be different depending on the applicant's nationality, the origin of their degree and their residence.

**Bachelor – European Applicants:**

Anyone who is a national of a Member State of the European Union (EU), the European Economic Area (EEA) and nationals of the Swiss Confederation is considered a European applicant.

* **Admission criteria:**

According to Art. 32 of the Universities Act, access to Bachelor's degree programmes is possible for the following persons:

* Holder of a Luxembourg secondary school diploma.
* Holder of a diplôme de technicien with successful completion of the preparatory modules.
* Holder of a diploma recognised as equivalent by the Ministère de l'Education Nationale, de l'Enfance et de la Jeunesse.

All diplomas and/or transcripts must be translated by a sworn translator if they are in a language other than French, German or English.

1. European applicant with a Luxembourg secondary school:

You are a European applicant with a Luxembourg secondary school-leaving certificate. You are eligible for all Bachelor study programmes.

If you are not yet in possession of your degree during the application period of the chosen study programme, you can submit your application online. In any case, you must apply no later than the deadline set by the study programme.

If your application is accepted, you will receive a letter of conditional admission.

As soon as you receive your school-leaving certificate and transcript, you can upload these documents via your admissions portal to complete your application. A letter of final admission will then be sent to you together with the invoice for the enrolment fees in order to validate your final enrolment.

After validation of your payment, you will receive your student card and enrolment certificate.

1. European applicant with diplôme de technicien with successful completion of the preparatory modules:

You are a European applicant with diplôme de technicien with successful completion of the preparatory modules. You are eligible for a limited number of Bachelor study programmes.

Access to the first year of studies in Bachelor's degree programmes is open to holders of a diplôme de technicien who have successfully completed preparatory modules in the relevant subject area of the intended study programme.

Section Economics and Management → Bachelor in Applied Management / Bachelor in Economics

Section Electrical engineering → Bachelor in Engineering – Electrical Engineering

Section Mechanical engineering → Bachelor in Engineering - Mechanical Engineering

Section Computer Science → Bachelor in Applied Information Technology / Bachelor in Computer Science

Section Civil Engineering → Bachelor in Engineering - Civil Engineering

If you are not yet in possession of your degree during the application period of the chosen study programme, you can submit your application online. In any case, you must apply no later than the deadline set by the study programme.

If your application is accepted, you will receive a letter of conditional admission.

As soon as you receive your school-leaving certificate and transcript, you can upload these documents via your admissions portal to complete your application. A letter of final admission will then be sent to you together with the invoice for the enrolment fees in order to validate your final enrolment.

After validation of your payment, you will receive your student card and enrolment certificate.

1. European applicant holding a school-leaving certificate issued by a Member State of the European Union (EU), the European Economic Area (EEA) or the Swiss Confederation :

You must submit a request for equivalence of your diploma to the Ministère de l’Education Nationale, de l’Enfance et de la Jeunesse in Luxemburg.

Equivalence procedure to be submitted to the respective Ministry.

This procedure also applies to any applicant with a secondary school-leaving certificate issued by the European School or by the IBO (International Baccalaureate).

If you are not yet in possession of your degree during the application period of the chosen study programme, you can submit your application online. In any case, you must apply no later than the deadline set by the study programme.

If your application is accepted, you will receive a letter of conditional admission.

As soon as you receive your school-leaving certificate, transcript and the equivalence certificate of your diploma, you can upload these documents via your admissions portal to complete your application. A letter of final admission will then be sent to you together with the invoice for the enrolment fees in order to validate your final enrolment.

After validation of your payment, you will receive your student card and enrolment certificate.

1. European applicant holding a school-leaving certificate issued by a state outside of the European Union (EU), the European Economic Area (EEA) or the Swiss Confederation:

You must submit a request for equivalence of your diploma to the Ministère de l’Education Nationale, de l’Enfance et de la Jeunesse in Luxemburg.

Equivalence procedure to be submitted to the respective Ministry.

We recommend that you complete this procedure before submitting your application.

If you are not yet in possession of your degree during the application period of the chosen study programme, you can submit your application online. In any case, you must apply no later than the deadline set by the study programme.

If your application is accepted, you will receive a letter of conditional admission.

As soon as you receive your school-leaving certificate, transcript and the equivalence certificate of your diploma, you can upload these documents via your admissions portal to complete your application. A letter of final admission will then be sent to you together with the invoice for the enrolment fees in order to validate your final enrolment.

After validation of your payment, you will receive your student card and enrolment certificate.

* **Required language skills:**

All candidates must prove proficiency in the teaching languages of the chosen programme at the University of Luxembourg. The language skills required for each programme are listed in the dedicated programme web page according to the Common European Framework of Reference for Languages (CEFR).

* **Recognition of prior experience and/or entry into a higher semester of a Bachelor programme:**

In order to avoid duplication of individual study effort and to acknowledge previous academic or professional experience, candidates applying to a bachelor of the University of Luxembourg can receive recognition for prior experience of relevance to their programme. As a result, a successful applicant can be exempted from study requirements and thereby, reduce the maximum duration available for the completion of studies.

The following experiences qualify for recognition:

Credits (ECTS or other) acquired during previous studies, and/or

Professional experience with a duration of at least 3 years full-time equivalent years (in a field of relevance to the programme).

Recognition of prior experience by the University without continuing studies at the University of Luxembourg is not possible because to obtain a degree from the University, a student must have obtained at least 60 ECTS credits by completing the courses followed and offered by the University.

* **Deadlines and Teaching languages:**

* **Bachelor en Sciences de la Vie - filière Biologie**

***Teaching languages:*** ***French and English***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Monday, 10 July 2023**
* **Deadline to submit application: Monday, 17 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor in Medicine**

***Teaching languages:*** ***French, German and English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Monday, 10 July 2023**
* **Deadline to submit application: Monday, 17 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelors en Sciences Infirmières – Spécialités**

***Teaching languages:*** ***French, German and English.***

***Deadlines & Application:***

* **Spécialité : Assistant Technique Médical de Chirurgie**
* **Online application: from Friday, 17 March 2023 to Monday, 17 July 2023**
* **Deadline to submit application: Friday, 28 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Spécialité : Infirmier en Anesthésie et Réanimation**
* **Online application: from Friday, 17 March 2023 to Monday, 17 July 2023**
* **Deadline to submit application: Friday, 28 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Spécialité : Infirmier en Pédiatrie**
* **Online application: from Friday, 17 March 2023 to Monday, 17 July 2023**
* **Deadline to submit application: Friday, 28 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Spécialité : Infirmier Psychiatrique**
* **Spécialité : Infirmier Psychiatrique**
* **Online application: from Friday, 17 March 2023 to Monday, 17 July 2023**
* **Deadline to submit application: Friday, 28 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor in Applied Information Technology**

***Teaching languages:*** ***French & English.***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Friday, 25 August 2023***
* ***Deadline to submit application: Friday, 01 September 2023***
* ***Deadline for payment: Friday, 08 September 2023***
* **Bachelor in Applied Information Technology – Continuing Education Programme**

***Teaching languages:*** ***French & English.***

***Deadlines & Application:***

* ***Online application: from Saturday, 01 April 2023 to Friday, 25 August 2023***
* ***Deadline to submit application: Friday, 01 September 2023***
* ***Deadline for payment: Friday, 08 September 2023***
* **Bachelor in Computer Science**

***Teaching languages : B2 certificate in English (no certificate for French or German but B1 level advised).***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Monday, 31 July 2023***
* ***Deadline to submit application: Tuesday, 15 August 2023***
* ***Deadline for payment: Friday, 08 September 2023***
* **Bachelor im Ingenieurwesen (Bachelor in Engineering)**

***Teaching languages:*** ***French, German and English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Tuesday, 01 August 2023**
* **Deadline to submit application: Tuesday, 08 August 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor in Mathematics**

***Teaching languages:*** ***French and English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Thursday, 31 August 2023**
* **Deadline to submit application: Monday, 04 September 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor in Physics**

***Teaching languages:*** ***French and English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Thursday, 31 August 2023**
* **Deadline to submit application: Thursday, 07 September 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor en Gestion**

***Teaching languages:*** ***French and English.***

***Deadlines & Application:***

* **Online application: [The registration period is now definitively over for this semester.]**
* **Bachelor in Economics**

***Teaching languages:*** ***French and English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Friday, 02 June 2023**
* **Deadline to submit application: Friday, 09 June 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor en Droit**

***Teaching languages:*** ***French and English***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Wednesday, 31 May 2023**
* **Deadline to submit application: Wednesday, 07 June 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor of Science in Psychology**

***Teaching languages:*** ***French, German & English.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Friday, 30 June 2023**
* **Deadline to submit application: Friday, 14 July 2023**
* **Deadline for payment: Friday, 08 September 2023**
* **Bachelor en sciences de l'éducation**

***Teaching languages : Luxembourgish, French, German & English.***

***Deadlines & Application:***

* **Online application: from Monday, 31 July 2023 to Friday, 08 September 2023**
* **Deadline to submit application: Tuesday, 12 September 2023**
* **Deadline for payment: Friday, 15 September 2023**
* **Bachelor en Formation Pédagogique**

***Teaching languages : Luxembourgish, French, German & English.***

***Deadlines & Application:***

* **Online application: from Sunday, 30 July 2023 to Friday, 08 September 2023**
* **Deadline for payment: Friday, 15 September 2023**
* **Bachelor en sciences sociales et éducatives**

***Teaching languages : French and German.***

***Deadlines & Application:***

* **Online application: [The registration period is now definitively over for this semester.]**
* **Bachelor en Cultures Européennes**

**- filière English Studies**

***Teaching languages : C1 level in English, German or French B2 (2nd foreign language), an A2 in a third language (German or French) is highly recommended.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023**
* **Deadline to submit application: Thursday, 01 June 2023**
* **Deadline for payment: Friday, 08 September 2023**

**- filière Études Françaises**

***Teaching languages : C1 level in French, German or English B2 (2nd foreign language), an A2 in a third language (German or English) is highly recommended.***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023***
* ***Deadline to submit application: Thursday, 01 June 2023***
* ***Deadline for payment: Friday, 08 September 2023***

**- filière Germanistik**

***Teaching languages : C1 level in German, English or French B2 (2nd foreign language), an A2 in a third language (French or English) is highly recommended.***

***Deadlines & Application:***

* **Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023**
* **Deadline to submit application: Thursday, 01 June 2023**
* **Deadline for payment: Friday, 08 September 2023**

**- filière Histoire**

***Teaching languages : First language C1 (French or German), Second language B2 (English, French or German), Third language B2 (English, French or German).***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023***
* ***Deadline to submit application: Thursday, 01 June 2023***
* ***Deadline for payment: Friday, 08 September 2023***

**- filière Philosophie**

***Teaching languages :*** ***First language C1 (English, or French, or German), Second language B2 (English, or French, or German), Third language B1 (English, or French, or German) .***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023***
* ***Deadline to submit application: Thursday, 01 June 2023***
* ***Deadline for payment: Friday, 08 September 2023***

**- filière Lëtzebuerger Linguistik a Literatur**

***Teaching languages : C1 level in Luxembourgish, B2 level in French, German and English.***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Thursday, 25 May 2023***
* ***Deadline to submit application: Thursday, 01 June 2023***
* ***Deadline for payment: Friday, 08 September 2023***
* **Bachelor en Enseignement Musical**

***Teaching languages : English level C1, oral comprehension and expression of the three official languages of Luxembourg (Lëtzebuergesch, French and German) is an advantage.***

***Deadlines & Application:***

* ***Online application: [The registration period is now definitively over for this semester.]***
* **Bachelor en Dessin d'Animation**

***Teaching languages : French and English.***

***Deadlines & Application:***

* ***Online application: [The registration period is now definitively over for this semester.]***
* **Bachelor en Comptabilité et Fiscalité**

***Teaching languages : French and English.***

***Deadlines & Application:***

* ***Online application: from Wednesday, 01 February 2023 to Thursday, 15 June 2023***
* ***Deadline to submit application: Thursday, 22 June 2023***
* ***Deadline for payment: Wednesday, 09 August 2023***