

SINC1BA - Introduction

Introduction

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Computer science, or more generally information and communications technology (ICT), is everywhere; everyone uses computers/smartphones/... to communicate, work, study, play, travel, and manage. More and more activities are assisted by computers. SMEs, public services, education world, associations, leisure, in two ...

Your profile

You

- have a taste for problem solving;
- are pushed by a great curiosity;
- overflow of creativity and imagination;
- are a head for abstraction, analysis and synthesis;
- have a methodical mind and show rigor in your reasoning;
- are good for human contact, organization of teamwork, leadership, etc.

Following a strong mathematical option during high school and feeling an attraction to science or economics are assets.

Your future job

During his career, the computer scientist will flourish and evolve in one or more of the following profiles:

- The designer identifies the needs of the future user and determines the technical means useful to fulfil these needs. He is able to speak "the language" of the customer, it has a fairly broad culture to interact successfully with non-computer experts. He masters computer technology to identify the best solution. It builds a quality architecture for this solution.
- The achiever is able to translate the indications and guidelines produced by the designer in computer components. He analyses in detail some components of the architecture, he programs, tests, deploys these components into an integrated solution. His technical expertise is very sharp.
- The IT project manager takes care of the smooth running of the project; he is responsible for the completion of the tasks associated with these systems, their safety, planning their development. As the designer, it has qualities in terms of human contacts, a good general education and strong technical skills.

Your programme

The bachelor has a compulsory part covering different disciplines

- computer science ;
- mathematics ;
- life sciences;
- human sciences;
- english.

Once bachelor, you will continue your training by the Master in Computer Science.

List of available minors

- > [Additional module in computer science](#) [en-prog-2024-appsinf]
- > [Additional module in life sciences and health for computer scientists](#) [en-prog-2024-appscvs]

Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified **in the detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme5 0 -1 0 20ng

o Formation en mathématiques et science des données

o LSINC1111	Analysis	Geovani Nunes Grapiglia	PS [q1] [30h +30h] [5 Credits]
o LSINC1112	Algebra	Stéphanie Guérit	PS [q2] [30h +30h] [5 Credits]

o Formation en sciences du vivant

o LSINC1131	General and Organic Chemistry	Karine Glinel Patricia Luis Alconero	PS [q1] [30h +30h] [5 Credits]
o LSINC1132	General biology		PS [q1] [30h +30h] [5 Credits]
o LSINC1133	Introduction to Human Physiology	Jean-François Rees	PS [q2] [30h +30h] [5 Credits]

o Formation en langues et sciences humaines

o LSST1002	Information and critical thinking	Anne Bauwens (compensates Jean- François Rees) Myriam De Kesel	PS [q2] [30h +30h] [5 Credits]
o LANGL1182	English for Computer Scientists	Lucille Meyers (coord.)	PS [q1] [30h] [5 Credits]

SINC1BA - 2ND ANNUAL UNIT

- Mandatory
- ✘ Optional
- △ Not offered in 2024-2025
- Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

o Content:

o Formation en informatique

● LSINC1402	Computer Science 2 ■	Sébastien Jodogne
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SINC1BA - 3RD ANNUAL UNIT

- Mandatory
- ✘ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students

[FR]

- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your secondary school diploma

