

Tell me more about COMPUTER SCIENCE

- I have a natural curiosity for science.
- I have a good capacity for analysis and abstraction.
- I know how to conduct logical reasoning.
- I'm interested in technological innovations and digitalisation.
- I would like to be able to use IT and modelling tools.
- I am willing to work hard at my studies.
- I have a solid grounding in scientific subjects.
- I would like to work in a sector with many career opportunities.
- Candidates should ideally have a secondary-level background in science.

WHICH PROFESSIONS?

Computer science graduates can be found across all business sectors: computer engineering, sales and retailing, telecommunications and networks, banking, insurance, transport, etc.

ASSISTANCE - SALES

- Instructor
- Helpline operator
- Maintenance technician
- IT engineer (technical/commercial)
- ...

DESIGN -CONSULTANCY

- Systems architect
- Bioinformatician
- Project manager
- Datascientist
- Web developer
- Embedded systems engineer
- Programmer analyst
- Decision-support computing engineer
- Software engineer
- ...

TEACHING - RESEARCH

- University lecturer
- Research engineer
- Secondary school teacher
- ...

OPERATIONS - ADMINISTRATION

- Network administrator
- Systems and network engineer
- Head of information systems security
- Industrial IT technician
- Network and telecommunications technician
- IT security expert
- Database administrator
- ...

Most of the professions listed require master's level qualifications, but some of them can be accessed after 2 or 3 years' higher education.

Examples taken from the list of professions compiled by ODIF (Observatoire de la Direction des Formations), part of the University of Lille.

<https://odif.univ-lille.fr/>

UNIVERSITY OF LILLE

Tell me more about COMPUTER SCIENCE

POST-SECONDARY COURSES AVAILABLE AT THE UNIVERSITY OF LILLE

PROFESSIONAL TRAINING IN 2 YEARS

Theory combined with apprenticeships in the field. Selective admission.

DUT **COMPUTER SCIENCE** **A** **△** ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME.

Trains mid-level managers to adapt to the technological changes and expectations facing businesses: produce, rollout, integrate, maintain and update computer and web applications, and oversee systems and network environment.

DUT **STATISTICS AND DECISION SUPPORT** **D** **△**

2ND YEAR ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME

Trains students how to process data: conducts surveys, design databases, analysis.

THE DEUST PROGRAMME IS OPEN TO APPLICANTS WHO HAVE COMPLETED ONE SEMESTER OF UNIVERSITY STUDIES.

DEUST **MAINTENANCE AND NETWORK INFRASTRUCTURE** **A**

ALSO AVAILABLE AS PARALLEL STUDENT/EMPLOYEE PROGRAMME

Trains IT technicians with two primary focuses: maintenance and installation of networks.

3-YEAR BACHELOR'S DEGREES

Theoretical grounding to prepare for further study up to master's level and/or civil service examinations.

The "**exact science and engineering**" (SESI) programme offers gradual specialisation, with all first years taking the following 8 subjects: chemistry, EEEA¹, civil engineering, computer science, mathematics, mechanics, physics, and combined physics & chemistry. In semester 2, students can choose a path that will lead into Computer science in their 2nd year.

After one year on the MIASHS² degree programme (MASS³ option), students can also pursue a bachelor's degree in Computer science.

THREE OPTIONS ARE AVAILABLE.

DEGREE **COMPUTER SCIENCE** **A** **△**
OPTION **COMPUTER SCIENCE** L2-L3

Option available in 2nd year with a focus on theoretical aspects and the fundamentals as well as applied and practical dimensions of IT: computer science architecture, algorithms and data structure, information coding, object-oriented programming, C programming, web-based technologies.

DEGREE **COMPUTER SCIENCE** **A**
OPTION **MATHS-IT** L3

Option available in 3rd year that enables students to take the CAPES examination in mathematics with computer science as an option with a view to teaching mathematics at secondary level in France.

DEGREE **COMPUTER SCIENCE** **A**
OPTION **MIAGE**⁴ L3

Option available in 3rd year, providing a solid foundation in computer science combined with technological knowledge linked to various areas of business.

SPECIFIC BACHELOR'S DEGREE PROGRAMMES

OPTION **SESI (BILINGUAL)** **A** **△**

Course providing specific competency in scientific English. Offered in 1st year; students can continue to 2nd year in mathematics and combined physics & chemistry.

OPTION **SESI (TAILORED)** **A** **△**

Course intended for holders of a technological baccalaureate or equivalent to help them succeed and pursue their studies to bachelor's level in the following areas: chemistry, EEEA, civil engineering, computer science or combined physics & chemistry.

¹ Electronics, electrical energy and automation

² Mathematics and computer science applied to the human and social sciences

³ Applied mathematics and social science

⁴ Computer science methods applied to business administration

AFTER 2 YEARS OF HIGHER EDUCATION AFTER A BACHELOR'S DEGREE

Whatever your background, you have the option of completing professional training. This course lasts one year and allows you to specialise, obtain a dual qualification or enter the job market after 3 years in higher education. This professional diploma is designed to lead immediately to employment. After 2 years of professional training, subject to certain conditions, you can also join a bachelor's degree programme.

You can continue your studies to master's level (5 years in higher education) in fields such as software engineering, e-services, digital infrastructure and imagery, etc. as well as computer science and MIAGE. You can also apply for admission to engineering schools at the end of your 2nd or 3rd year (e.g. Polytech'Lille).

The information here is valid for the reference year 2018-2019. The academic programmes at ULille are subject to change in September 2020

More info: consult the catalogue of courses at <https://www.univ-lille.fr/formations> or contact SUAIO

△ PARCOURSUP

Find out about the requirements and terms of access for each course at: www.parcoursup.fr

Main campuses:

- A** Campus Cité scientifique (V. D'Ascq)
- B** Campus Moulins-Ronchin
- C** Campus Pont-de-Bois (V. D'Ascq)
- D** Campus Roubaix-Tourcoing
- E** Campus Santé (Lille ; Loos)