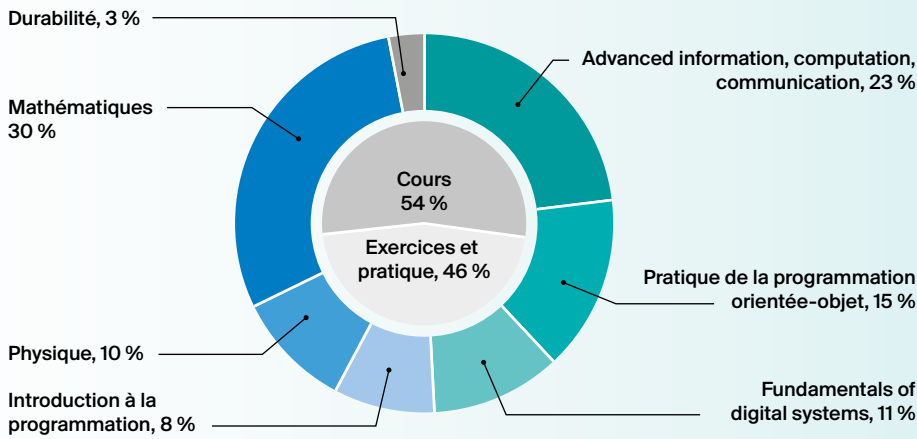
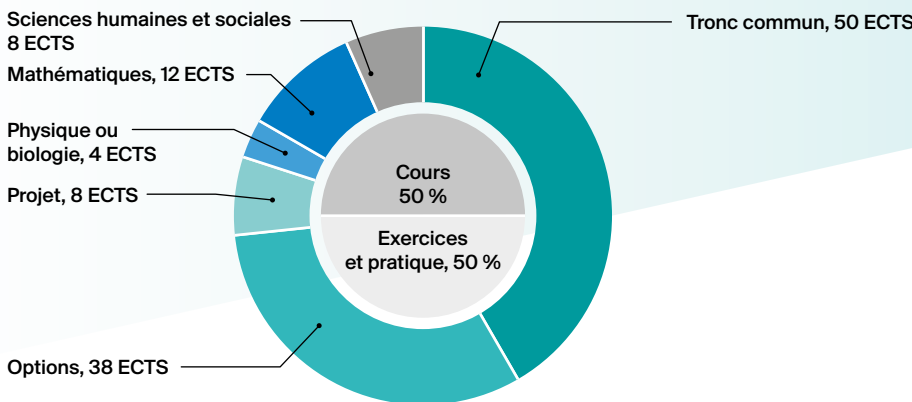


Piano di studio
Bachelor 1° anno



Corsi in inglese

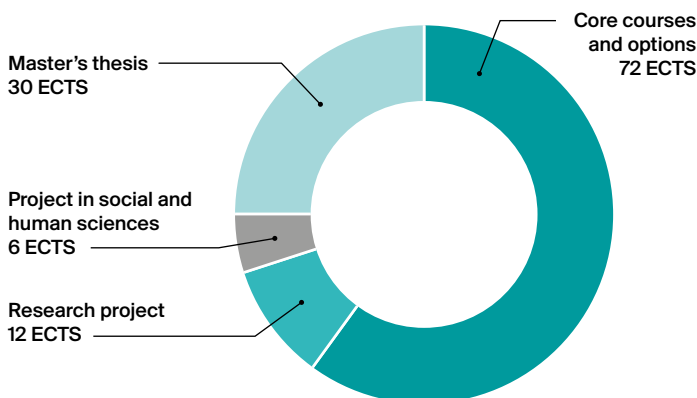
1° anno (a scelta):	75 %
2° e 3° anno:	95 %
Master:	100 %



Bachelor 2° e 3° anno

10 esempi di corsi:

- Computer architecture
- Computer graphics
- Computer language processing
- Computer security and privacy
- Data-intensive systems
- Introduction to machine learning
- Introduction to quantum computation
- Parallelism and concurrency in software
- Signal processing
- The software enterprise - from ideas to products



Master

2-year program - 120 ECTS

The Master's program includes a compulsory internship in a company.

Master in Computer Science (120 ECTS)

More than 60 optional courses in 10 specializations:

- Computer engineering
- Computer science theory
- Cyber security
- Data analytics
- Foundations of software
- Internet information systems
- Networking and mobility
- Signals, images and interfaces
- Software systems
- Wireless communications

The students may also opt for a Teaching specialization (30 ECTS) at the *Haute école pédagogique du canton de Vaud* or a minor (30 ECTS) included in the 120 ECTS of the Master's program.

The Bachelor's degree in Computer Science also gives access to the Master's programs in Data Science (120 ECTS) and Cyber Security (120 ECTS)

Examples of courses in Data Science:

- Computational photography
- Machine learning for behavioral data
- Modern natural language processing
- Statistics for Data Science
- Visual intelligence: machines and minds

Examples of courses in Cyber Security:

- Advanced topics on privacy enhancing technologies
- Cryptography and security
- Formal verification
- Information security and privacy
- Software security

Sbocchi professionali

Lo stage può essere svolto in una delle aziende con cui la sezione di informatica e sistemi di comunicazione è in contatto, come Oracle, Swisscom Digital Lab, Google, Logitech, IBM Research Lab, NEC Labs, Sony, Elca Informatique, Nagravision, Armasuisse, INRIA, Schlumberger Inc., CSEM. Lo stage offre una buona occasione per viaggiare.

Faculté informatique et communications (IC)

Section d'informatique

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