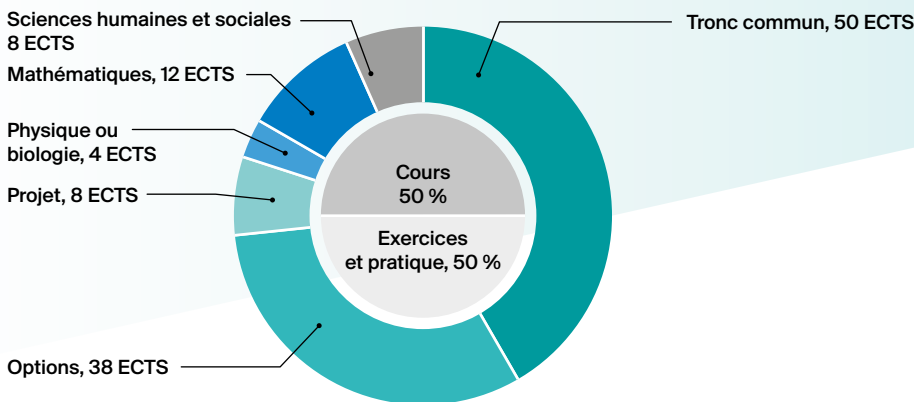
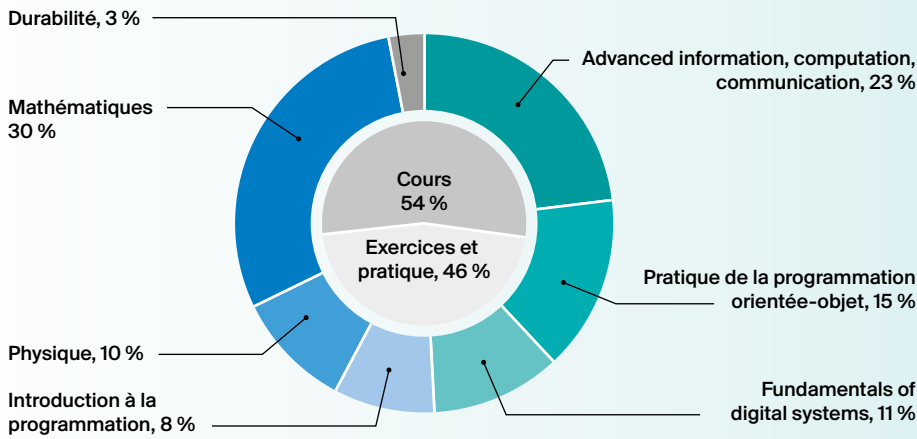
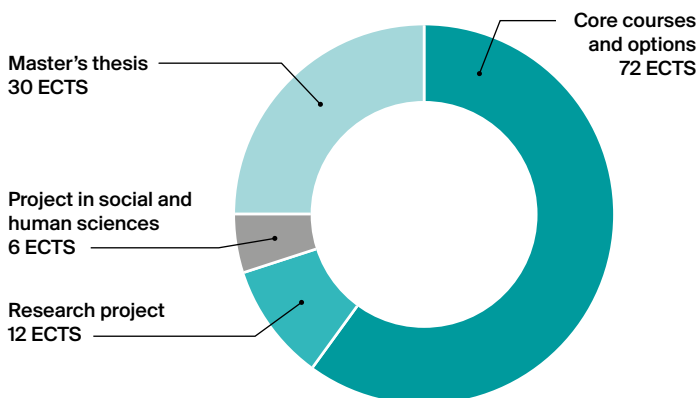


Plan d'études
Bachelor 1^{er} année



Bachelor 2^e et 3^e années

- 10 exemples de cours :**
- 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 | • Internet information systems |
| • Computer science theory | • Networking and mobility |
| • Cyber security | • Signals, images and interfaces |
| • Data analytics | • Software systems |
| • Foundations of software | • 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

Perspectives professionnelles

Le stage peut être effectué dans l'une des entreprises avec lesquelles la Faculté informatique et communications est en contact, comme Oracle, Swisscom Digital Lab, Google, Logitech, IBM Research Lab, NEC Labs, Sony, Elca Informatique, Nagravision, Armasuisse, INRIA, Schlumberger Inc., CSEM. Le stage représente également une occasion de voyager.

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