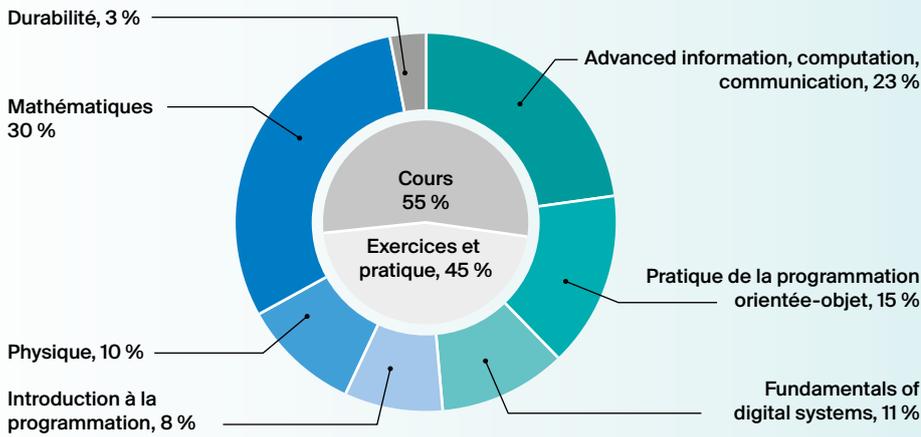
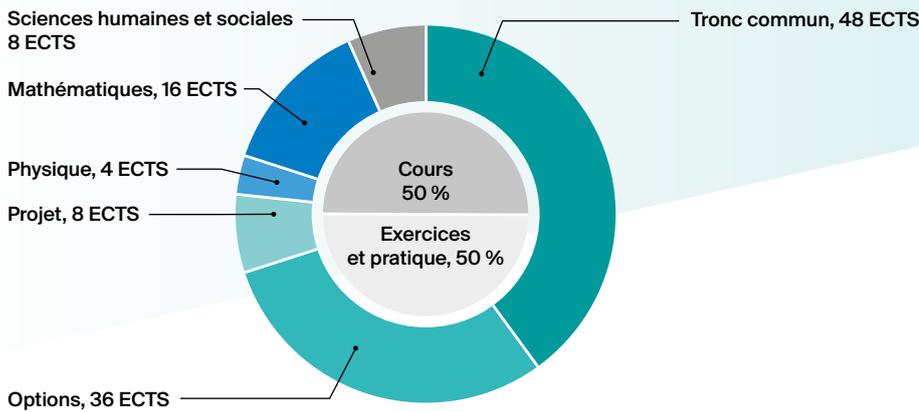


Plan d'études
Bachelor 1^{er} année

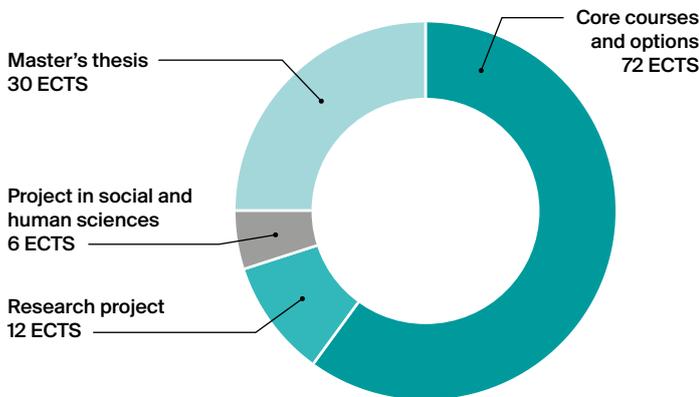


Bachelor 2^e et 3^e années



10 exemples de cours :

- Computer security and privacy
- Computer systems
- Data-intensive systems
- Électronique
- Internet analytics
- Introduction to quantum computation
- Principles of digital communications
- Signal processing
- Technologies for democratic society
- Theory of computation



Master
2-year program - 120 ECTS

Master in Computer Science (120 ECTS)

More than 50 optional courses in 4 specializations:

- AI & Data Science
- Computer Systems
- Foundations of Computing
- Cyber Security

Examples of courses in Data Science:

- Computers and music
- Deep learning in biomedicine
- Machine learning for behavioral data
- Modern natural language processing
- Visual intelligence

Examples of courses in Cyber Security:

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

There is no Master's program in Communication Systems.

The Bachelor's degree in Communication Systems gives direct access to the Master's programs in Computer Science (120 ECTS), Data Science (120 ECTS) and Cyber Security (120 ECTS).

The Bachelor's degree in Communication Systems also gives direct access to the Master's in Neuro-X (120 ECTS).

All Master's programs include a compulsory internship in a company.

Within the Computer Science and the Data Science Master's programs, students may also opt for a Teaching specialization (30 ECTS) at the *Haute école pédagogique du canton de Vaud* (30 ECTS) included in the 120 ECTS of the program.

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.

Faculté informatique et communications (IC)

Section des systèmes de communication

E-mail: ssc@epfl.ch

Téléphone: +41 21 693 66 61

Web: go.epfl.ch/bachelor-systemes-communication