Master of Science in
APPLIED MATHEMATICS
2-year program - 120 ECTS

Students must choose at least 30 ECTS worth of courses labelled A.

Optional courses are classified in the following tracks:
- Algebra and geometry
- Algorithmic and discrete mathematics
- Analysis
- Numerical analysis
- Probability
- Statistics

On top of the Optional courses (40 ECTS) students must choose 4 ECTS in another engineering program, except if they opt for a 30 ECTS engineering minor.

Recommended courses:
- Biological modeling of neural networks
- Biomedical signal processing
- Signal processing for communications
- Statistical signal and data processing through applications
- Applied data analysis
- Algorithms
- Advanced algorithms
- Information theory and coding
- Investments
- Credit risk
- Fixed income analysis
- Quantitative risk management
- Principles of microeconomics
- Relativity and cosmology I
- Relativity and cosmology II

Students opting for a minor in engineering may shorten their industrial internship.

School of Basic Sciences
go.epfl.ch/master-applied-mathematics
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