Master of Science in DIGITAL HUMANITIES
2-year program - 120 ECTS

Computer science
- Applied data analysis: 6 ECTS
- Computational social media: 4 ECTS
- Foundations of digital humanities: 6 ECTS
- Machine learning for DH: 4 ECTS

Digital humanities
- Cultural data sculpting: 5 ECTS
- Design research for digital innovation: 5 ECTS
- Digital musicology: 5 ECTS
- History and the digital: 5 ECTS

Social and human sciences
- SHS introduction to project: 3 ECTS
- SHS project: 3 ECTS

Options
- Advanced computer graphics: 6 ECTS
- Artificial neural networks: 5 ECTS
- Automatic speech processing: 3 ECTS
- Computational photography: 5 ECTS
- Computer vision: 4 ECTS
- Data visualization: 4 ECTS
- Database systems: 7 ECTS
- Decision-aid methodologies in transportation: 4 ECTS
- Deep learning: 4 ECTS
- Digital education and learning analytics: 4 ECTS
- Distributed information systems: 4 ECTS
- Exploratory data analysis in environmental health: 4 ECTS
- Foundations of data science: 6 ECTS
- Image and video processing: 6 ECTS
- Image processing I, II: 6 ECTS
- Interaction design: 4 ECTS
- Introduction to BIM (Building Information Modeling): 3 ECTS
- Introduction to natural language processing: 4 ECTS
- Linear models: 5 ECTS
- Machine learning: 7 ECTS
- Machine learning for behavioral data: 4 ECTS
- Spatial statistics and analysis: 5 ECTS
- Strategic marketing and technology commercialization: 4 ECTS
- Technology and innovation strategy: 4 ECTS
- UE H: Graphie: 4 ECTS
- UE I: Territoire et paysage: 4 ECTS
- UE R: Introduction au BIM (Building Information Modeling): 4 ECTS
- Virtual reality: 4 ECTS
- Visions et utopies: 3 ECTS

Internship
This Master’s program includes a compulsory four to six-month internship in industry, a cultural institution or in an international organization to ensure a maximum of applied learning and real-world experience.

Internship testimonials

Digital Humanities student testimonials

Career prospects
EPFL digital humanities engineers, having both advanced technical skills and a broad interdisciplinary approach, are ready to make an impact, from creative industries to information and communication technologies (ICT) to cultural heritage.

In addition to standard ICT career opportunities, a broad range of additional positions are for instance: user experience designer, data journalist, artificial intelligence specialist for the creative industries (media, music, video games, fashion), data scientist in the humanitarian sector and numerous academic careers in the growing field of the digital humanities.

Admission requirements
Interested students must have a Bachelor’s degree in a science, technology, engineering, or mathematics (STEM) discipline with excellent records and a solid understanding of programming, algebra, statistics, and signal processing. Students must also express an active interest in culture and humanities through previous studies, extracurricular activities or personal projects.

go.epfl.ch/master-digital-humanities
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