UNIVERSITÀ DI TRENTO

DEPARTMENT OF

INFORMATION ENGINEERING AND COMPUTER SCIENCE



LM Computer Science

LM Informatica

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LM Computer Science – A multidisciplinary approach



Solid Foundations: Knowledge of fundamentals and practical aspects of computer science.



Processing Systems: Knowledge of principles, structures, and use of processing systems.



Professional Culture: Elements of business and professional culture in various sectors.



Autonomy & Responsibility: Ability to work autonomously, plan and lead projects.



Scientific Method: In-depth scientific investigation using math and physics tools.



System Design: Ability of designing and implementing general-purpose or custom computer systems.



Soft Skills: Strong communication skills in various professional environments.

LM Computer Science – Learning modalities and objectives

science

Scientific & Tech Macro-Areas

Deepening of scientific and technological aspects or expansion of skills across multiple macro-areas.

school

Multidisciplinary Training

Education through activities from other UniTrento courses (biology, math, etc.) or EIT Digital programs.

psychology

Complex Problem Modeling

Analysis and creation of models and solutions for complex problems in various application domains.

settings_input_component

System Development

Design and development of high-quality computer systems across diverse sectors.

business_center

Entrepreneurship

Courses and seminars with successful entrepreneurs to promote job placement and new startups.

LM Computer Science – Training paths



Flexible Training Path

Over 110 courses in 25/26. A unique, personalizable journey comparable to top global universities.



International Drive

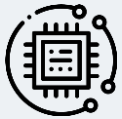
Double Degree programs, also with EIT Digital. Study one year in Italy and one year abroad.



Industry Connections

Strong ties with global multinational corporations as well as with national and international SMEs.

Two Curricula - Several Specialization Areas



Computer Science & Technologies

Computational Foundations, Data Science, Bioinformatics, Software & Service Architectures, Systems & Networks, Cybersecurity, Human-Computer Interaction



ICT Innovation

Cyber Security, Data Science, Finance Technology, Human-Computer Interaction and Design

LM Computer Science – Computer Science and Technologies

- **Mandatory (6CFU)**
  Computability and computational complexity
- **Foundation of Economy, Management and Innovation (6CFU)**
  Choose one between:
  - Ethics for computer science and engineering (6 CFU)
  - Innovation and Business in ICT (6 CFU)
- **Foundation of Computer Science (12CFU)**
  Choose two between:
  - Distributed systems (6 CFU)
  - Machine Learning (6 CFU)
  - Security Testing (6 CFU)

Mandatory/ fixed choice (30CFU)



Mandatory/fixed-choice (30CFU)

Depth (18CFU)

Breadth (18 CFU)

Free Choice (24CFU)

Internship and Thesis (30CFU)

LM Computer Science – Computer Science and Technologies

- **Complements of Communication and Electronic Engineering (6CFU)**
  - Engineering programmable and sustainable networks
  - Deep fake detection and multimedia security
  - Sensing technologies and data processing
  - Advanced computing architectures
  - Simulation and evaluation of networked systems
  - Computer vision

Mandatory/
fixed choice (30CFU)



Mandatory/fixed-choice (30CFU)

Depth (18CFU)

Breadth (18 CFU)

Free Choice (24CFU)

Internship and Thesis (30CFU)

LM Computer Science – Computer Science and Technologies

- **Choose one depth area among (18CFU):**
  - Computational Foundations
  - Data Science
  - Bioinformatics
  - Software and Service Architectures
  - Systems and Networks
  - Cybersecurity
  - Human-Computer Interaction

Depending on the area/exam choice:
- 3 exams x 6CFU, or 2 exams x 6CFU + 1 exam x 12 CFU

Depth (18CFU)



Mandatory/fixed-choice (30CFU)

Depth (18CFU)

Breadth (18 CFU)

Free Choice (24CFU)

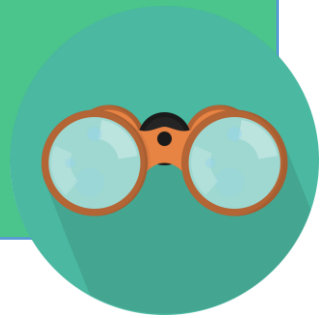
Internship and Thesis (30CFU)

LM Computer Science – Computer Science and Technologies

- **Choose one breadth area (different from depth) among (18CFU):**
  - Computational Foundations
  - Data Science
  - Bioinformatics
  - Software and Service Architectures
  - Systems and Networks
  - Cybersecurity
  - Human-Computer Interaction

Depending on the area/exam choice:
- 3 exams x 6CFU or 2 exams x 6CFU + 1 exam x 12 CFU

Breadth (18CFU)



Mandatory/fixed-choice (30CFU)

Depth (18CFU)

Breadth (18 CFU)

Free Choice (24CFU)

Internship and Thesis (30CFU)

LM Computer Science – Computer Science and Technologies

- All courses offered by DISI LMs are accepted.
- Courses offered by other Departments from the University of Trento can also be included, but are subject to approval.

Free Choice (24CFU)



- Mandatory/fixed-choice (30CFU)
- Depth (18CFU)
- Breadth (18 CFU)
- Free Choice (24CFU)
- Internship and Thesis (30CFU)

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LM Computer Science – ICT Innovation

Specialization Areas

- **CSE** Cyber Security *(also as EIT entry/exit)*
- **DS** Data Science *(also as EIT exit)*
- **FT** Finance Technology *(also as EIT entry/exit)*
- **HCID** Human Computer Interaction *(also as EIT exit)*



EIT Digital Master School

- Mandatory 1-year mobility in a top EU university
- Double-degree & EIT Label certificate awarded
- Includes mandatory Summer School in EIT nodes

Strong focus on Innovation & Entrepreneurship

1st Year (Entry)

- 24 CFU mandatory (I&E)
- 24 CFU mandatory (Technical)
- 12 CFU fixed-choice (Technical)

2nd Year (Exit)

- 6 CFU mandatory (I&E)
- 24 CFU fixed-choice (Technical)
- 30 CFU internship and thesis

** Fixed-choice courses can be free-choice upon approval.*

LM Computer Science – Employment opportunities

The occupational and professional fields of reference for Computer Science graduates are those of the **design, organization, management and maintenance** of complex or innovative computer systems (with specific regard to **reliability, performance** and **security**).

settings_suggest Computer Systems

Employment across diverse sectors, such as:

- Industry & Services
- Environment & Territory
- Health and Life Science
- Engineering
- Culture & Public Administration

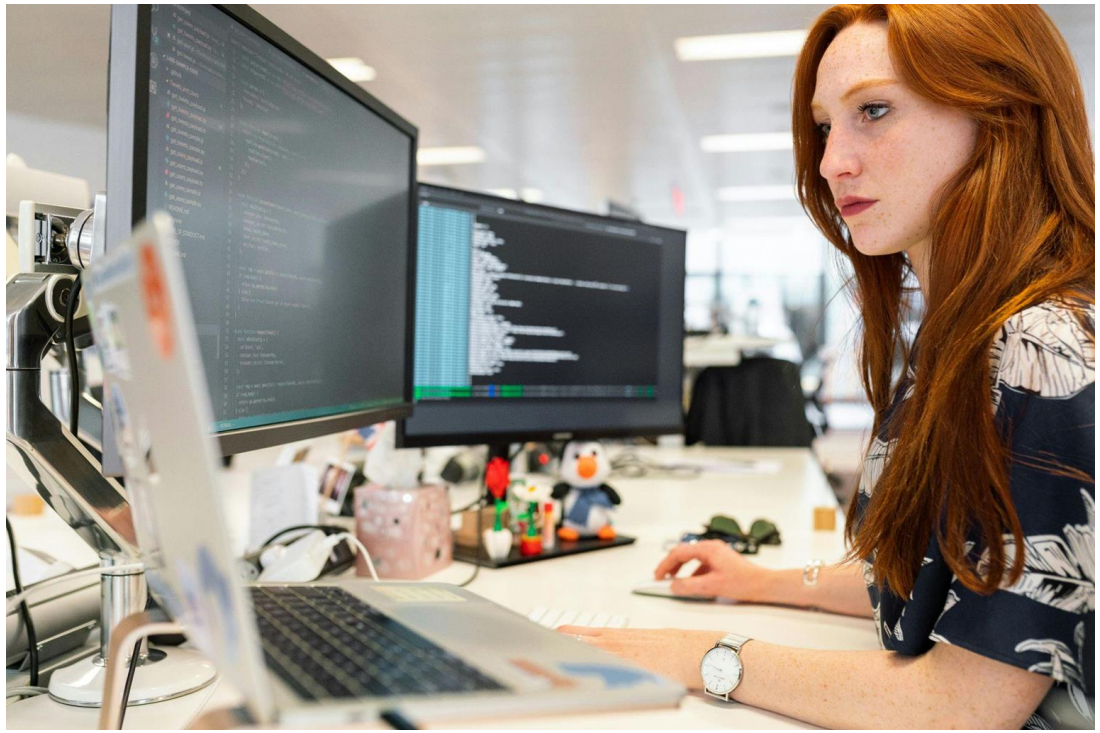
psychology Innovative Applications

Key focus areas in modern technology:

- AI and Data Science
- Data Security
- Computational Graphics and Simulation
- Multimedia Systems and Signal Processing
- Human-Computer Interaction

LM Computer Science – Employment opportunities

94.4% of graduates are **employed**





within **one year of graduation**.

Source: University of Trento Graduate Employment Data.

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Begin Your Journey



Admission Requirements

A Bachelor's Degree with a foundation in Computer Science Engineering (at least 12 CFU).

Upper-intermediate (B2 Level) English proficiency.



Visit the Official Program Webpage
https://corsi.unitn.it/en/computer-science

Useful Links
https://www.disi.unitn.it/eit-digital



Enrollment Information

EU Citizens: No limited enrollment.

Non-EU Citizens: Limited enrollment, with 5 grants available.