



Academic year 2026-2027

Bachelor in Informatics (BINF)

The study plan and course descriptions provide an overview of the programme's structure and content, and may be subject to changes. In case a study programme offers multiple specialisations or streams, these are presented consecutively within the same document.

Study Plan

1st semester (SA 2026-2027)

Core courses (30 ECTS)	Lecturers	Tags	ECTS
Calculus	Hormann		9
Computer Architecture	Langheinrich		6
Programming Fundamentals 1	Furia		9
Software Atelier 1: Fundamentals of Informatics	Bavota		6
Elective courses (0 ECTS)	Lecturers	Tags	ECTS
Introduction to GenAI: from Theory to Practice	Nobile		3

2nd semester (SP 2027)

Core courses (30 ECTS)	Lecturers	Tags	ECTS
Algorithms & Data Structures	Carzaniga		6
Discrete Structures	Wolf		6
Ethics in Computing	Santini		3
Linear Algebra	Pivkin		6
Programming Fundamentals 2	Hauswirth		9
Elective courses (2 ECTS)	Lecturers	Tags	ECTS
Programming Challenges Lab	Carzaniga		2

3rd semester (SA 2027-2028)

Core courses (30 ECTS)	Lecturers	Tags	ECTS
Automata & Formal Languages	Pozzi		3
Probability & Statistics	Tonella		6
Programming Fundamentals 3	Binder		6
Software Atelier 3: The Web	Pautasso		9
Systems Programming	Carzaniga		6

4th semester (SP 2028)

Core courses (30 ECTS)	Lecturers	Tags	ECTS
Computer Networking	Santini		6
Data Management	Eugster		6

<u>Operating Systems</u>	Pedone	6
<u>Software Atelier 4: Software Engineering Project</u>	Mocci	9
<u>Software Quality Process</u>	Pezzè	3

5th semester (SA 2028-2029)

Core courses (21 ECTS)	Lecturers	Tags	ECTS
<u>Software Atelier 5: Field Project</u>	Prevostini, Lanza		9
<u>Bachelor Project (BINF)</u>	Pezzè		12
Elective courses (21 ECTS)	Lecturers	Tags	ECTS
<u>Algorithms & Data Structures 2</u>	Papadopoulou		6
<u>Artificial Intelligence (BSc)</u>	Gambardella		3
<u>Computer Graphics</u>	Didyk		6
<u>Experimentation & Evaluation</u>	Bavota		3
<u>Information Retrieval</u>	Landoni		6
<u>Numerical Computing</u>	Richter Mendoza		6
Non-INF electives			3

6th semester (SP 2029)

Core courses (12 ECTS)	Lecturers	Tags	ECTS
<u>Bachelor Project (BINF)</u>	Pezzè		12
Elective courses (18 ECTS)	Lecturers	Tags	ECTS
<u>Compilers</u>	Miller		6
<u>Image and Video Processing</u>	Didyk		6
<u>Machine Learning (BSc)</u>	Zambon		6
<u>Optimization Methods</u>	Sulem		6
<u>Quantum Computing</u>	Wolf		6
<u>Theory of Computation</u>	Sharygina		6
Non-INF electives			3