Philosopher's Track 1st Semester (Winter 2025/26)

Ideally, in the first semester we recommend you to complete the following modules:

- Data Modelling & Analysis
- Minds and Machines
- Mathematical Thinking (in total you need 2 courses to complete this module, we recommend taking at least one this semester)
- Computational Thinking
- Theoretical Computer Science

You can also take advanced (philosophy) or specialization classes if you fulfil the required prerequisites.

For planning your timetable, you can also refer to the module handbook or directly check the courses listed in cmlife. Here you can find a detailed tutorial how cmlife works in German and a here general description in the English FAQs, additionally during your orientation week you should attend the event "Build your timetable" which is part of the orientation week by the International Office. To further support you with this, we have compiled a list of possible courses for each module and a sample schedule. Please note that you can only choose one course per module (except Mathematical Thinking).

List of Courses

Module	Course(s)	Instructor	Time
Data Modelling & Analysis	Data Modelling and Knowledge Generation	Prof. Dr. Mirco Schönfeld	Lecture Mondays 14:00-16:00, Exercise Fridays 12:00-14:00 (fortnightly)
Minds and Machines	Minds and Machines	Prof. Dr. Lena Kästner	Thursday 14:00-16:00
Mathematical Thinking	Mathematical Foundations I *(recommended for Philosophy Track or if you have never done courses on mathematics before)*	Dr. Moritz Zehnder	Lecture Thursday 12:00-14:00, Exercise Wednesday 10:00-12:00
	Logic & Argumentation Theory *(recommended for CS Track or if you have never done courses on Logic before)*	Prof. Dr. Olivier Roy	Monday 12:00-14:00, Wednesday 16:00-18:00
	Data Analysis in R *(recommended if you know basics about both mathematics & logic)*	Dr. Kenneth Stiller	Block course (16.-18.01.2026)

Computational Thinking	Python and data tools for Non-Programmers *(recommended)*	Dr. Rodrigo Queiroz de Albuquerque	Monday 08:00-10:00, Friday 08:00-10:00
	Programming, Data Analysis and Deep Learning in Python	Prof. Dr. Jörg Müller	Tuesday 10:00-12:00
Theoretical Computer Science	Bit, Bytes, and Beyond: Foundations of Computer Science	Prof. Dr. Mirco Schönfeld	Lecture Friday 14:00-16:00, Exercise Friday 12:00-14:00 (fortnightly)
Advanced Philosophy Seminar	Decision Theory	Prof. Dr. Olivier Roy	Monday & Wednesday 14:00-16:00
	Epistemic Logic and Epistemic Game Theory	Dr. Paolo Galeazzi	Block course (05.-07.12., 12-14.12.)
	Conspiracy Theories	Prof. Dr. Cristina Borgoni	Wednesday 10:00-12:00

Sample Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00 - 10:00	Python and data tools for Non-Programmers				Python and data tools for Non-Programmers
10:00 - 12:00		Programming, Data Analysis and Deep Learning in Python	Mathematical Foundations I (Exercise)		
12:00 - 14:00	Logic & Argumentation Theory (Lecture)			Mathematical Foundations I (Lecture)	Data Modelling & Knowledge Generation / Bits, Bytes and Beyond
14:00 - 16:00	Data Modelling & Knowledge Generation			Minds and Machines	Bit, Bytes, and Beyond: Foundations of Computer Science (Lecture)
16:00 - 18:00			Logic & Argumentation Theory (Exercise)		
18:00 - 20:00					

*times are stated “cum tempore” (c.t.), that means the courses start 15min later and end 15min earlier (e.g. 10:00-12:00 = 10:15-11:45)

Computer Scientist's Track 1st Semester (Winter 2025/26)

Ideally, in the first semester we recommend you to complete the following modules:

- Data Modelling & Analysis
- Minds and Machines
- Mathematical Thinking (in total you need 2 courses to complete this module, we recommend taking at least one this semester)
- Analytical Thinking
- Practical Philosophy

You can also take advanced (computer science) or specialization classes if you have the required prerequisites.

For planning your timetable, you can also refer to the module handbook or directly check the courses listed in cmlife. Here you can find a detailed tutorial how cmlife works in German and a here general description in the English FAQs, additionally during your orientation week you should attend the event "Build your timetable" which is part of the orientation week by the International Office. To further support you with this, we have compiled a list of possible courses for each module and a sample schedule. Please note that you can only choose one course per module (except Mathematical Thinking).

List of Courses

Module	Course(s)	Instructor	Time
Data Modelling & Analysis	Data Modelling and Knowledge Generation	Prof. Dr. Mirco Schönfeld	Lecture Mondays 14:00-16:00, Exercise Fridays 12:00-14:00 (fortnightly)
Minds and Machines	Minds and Machines	Prof. Dr. Lena Kästner	Thursday 14:00-16:00
Mathematical Thinking	Logic & Argumentation Theory *(recommended for CS Track or if you have never done courses on Logic before)*	Prof. Dr. Olivier Roy	Monday 12:00-14:00, Wednesday 16:00-18:00
	Mathematical Foundations I *(recommended for Philosophy Track or if you have never done mathematics before)*	Dr. Moritz Zehnder	Lecture Thursday 12:00-14:00, Exercise Wednesday 10:00-12:00
	Data Analysis in R	Dr. Kenneth Stiller	Block course (16.-18.01.2026)

	(recommended if you know basics about both mathematics & logic)		
Analytical Thinking	An Introduction to Philosophical Analysis	Prof. Dr. Patricia Rich	Tuesday 10:00-12:00
Practical Philosophy	Ethics	Dr. Uwe Czaniera	Tuesday 12:00-14:00 (lecture) *[Thursday 12:00-14:00 additional Specialization seminar]*

Sample Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-10:00					
10:00-12:00		An Introduction to Philosophical Analysis	Mathematical Foundations I (Exercise)		
12:00-14:00	Logic & Argumentation Theory	Ethics		Mathematical Foundations I (Lecture)	Data Modelling & Knowledge Generation (Exercise)
14:00-16:00	Data Modelling & Knowledge Generation (Lecture)			Minds and Machines	
16:00-18:00			Logic & Argumentation Theory		
18:00-20:00					

*times are stated "cum tempore" (c.t.), that means the courses start 15min later and end 15min earlier (e.g. 10:00-12:00 = 10:15-11:45)

Further Courses

Module	Course(s)	Instructor	Time
Computational Thinking	Coding & Data Science with Python for All	Prof. Dr. Aldo Faisal	Tuesday 14:00-16:00 (Exercise Tuesday 16:00-17:00)
	Computational Thinking (in German)	Prof. Dr. Jörg Müller	Monday 10:00-12:00
Theoretical Philosophy	Philosophy of the Social Science	Prof. Dr. Patricia Rich	Wednesday 10:00-12:00 + 14:00-16:00 (tbd)
	Philosophy of Science I	Dr. Uwe Czaniera	Monday 12:00-14:00
Independent Study	Philosophical Writing Workshop	Prof. Dr. Lena Kästner	Block course 09.-10.02.2026
	Philosophy, Computer Science & AI: Contemporary Issues	Prof. Dr. Lena Kästner	Tuesday 14:00-16:00
	Research Project Data Mining in Marketing with R and Python	Prof. Dr. Daniel Baier	Friday 08:00-10:00
Specialisation	Algorithmic fairness: Computer Scientific and Philosophical Challenges	Dr. Timo Speith	Tuesday 08:00-10:00
	Machine Explainability	Dr. Timo Speith	Thursday 10:00-12:00
	Ludwig Wittgenstein: Language and Mind	Prof. Dr. Cristina Borgoni	Tuesday 10:00-12:00
	Ludwig Wittgenstein: Knowledge	Prof. Dr. Cristina Borgoni	Tuesday 14:00-16:00
	Applied Artificial Intelligence	Prof. Dr. Niklas Kühl	Tuesday 16:00-19:00
	Fairness in AI	Prof. Dr. Niklas Kühl	No fixed time slot (variable)
	Seminar Social Network Analysis	Prof. Dr. Mirco Schönfeld	Friday 10:00-12:00

	Block seminar and workshop: "Origins of Communication"	Prof. Dr. Cristina Borgoni	Block course (24.-25.09.)
	Block seminar: Knowledge by lived experience	Prof. Dr. Cristina Borgoni	Block course (04.-06.12.2025)
	Ethical and Legal Issues in IT Security Research	Prof. Dr. Lena Kästner & Prof. Dr. Sebastian Roth	Block course (29.10.; 14.-16.11.2025)
	Principles of Entrepreneurship	Prof. Dr. Matthias Baum	Irregular (22.10., 29.10., 12.11., 26.11., 14.01., 04.02.)
	Reinforcement Learning for Scientists & Engineers	Prof. Dr. Aldo Faisal	Thursday 14:00-16:00 (Exercise Thursday 16:00-17:00)
	Technology & AI – innovation, regulation & policy	Prof. Dr. Aldo Faisal	Wednesday 10:00-12:00
Specialisation OR Advanced Philosophy	Epistemic Logic and Epistemic Game Theory	Dr. Paolo Galeazzi	Block course (05.-07.12., 12-14.12.)
	Conspiracy Theories	Prof. Dr. Cristina Borgoni	Wednesday 10:00-12:00
	Criminality and Finance	Dr. Paolo Galeazzi	Block course (21-23.11., 28-30.11.)
Advanced Computer Science	User-Centered Design (UCD)	Prof. Dr. Daniel Buschek	Tuesday 14:00-18:00
	Process Mining I	Prof. Dr. Agnes Koschmider	Lecture Thursday 12:00-14:00, Exercise 14:00-16:00