

List of Courses Philosophy & Computer Science (Winter 2025/26)

Dear third-semester students, please check if you have completed all of the required foundational modules:

Philosophers' Track:

- Computational Thinking
- Theoretical Computer Science
- Applied Computer Science
- Mathematical Thinking (in total you need 2 courses to complete this module)
- Minds and Machines
- Data Modelling & Analysis
- Machine Ethics
- Advanced Topics: Advanced Philosophy + Advanced Computer Science)

Computer Science's Track:

- Analytical Thinking
- Practical Philosophy
- Theoretical Philosophy
- Mathematical Thinking (in total you need 2 courses to complete this module)
- Minds and Machines
- Data Modelling & Analysis
- Machine Ethics
- Advanced Topics: Advanced Philosophy + Advanced Computer Science)

If you have not completed all of the above modules yet, we recommend taking those now in the third semester. Otherwise, you are free to choose any courses of your liking. Below you find a list of courses that are offered this semester in the respective modules:

List of Courses

*if you find other courses that might fit into these modules, please contact the PhilCS team

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 <i>(recommended for Philosophy Track or if you have never done courses on mathematics before)</i>	Dr. Moritz Zehnder	Lecture Thursday 12:00-14:00, Exercise Wednesday 10:00-12:00
	Logic & Argumentation Theory <i>(recommended for CS Track or if you have never done courses on Logic before)</i>	Prof. Dr. Olivier Roy	Monday 12:00-14:00, Wednesday 16:00-18:00
	Data Analysis in R <i>(recommended if you know basics about both mathematics & logic)</i>	Dr. Kenneth Stiller	Block course (16.-18.01.2026)
Computational Thinking	Python and data tools for Non-Programmers <i>(recommended)</i>	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
	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 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)
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
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) <i>[Thursday 12:00-14:00 additional Specialization seminar]</i>
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

Advanced Philosophy Seminar	Decision Theory	Prof. Dr. Olivier Roy	Monday & Wednesday 14:00-16:00
Specialisation / 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.)
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.)

	<u>Reinforcement Learning for Scientists & Engineers</u>	Prof. Dr. Aldo Faisal	Thursday 14:00-16:00 (Exercise Thursday 16:00-17:00)
	<u>Technology & AI – innovation, regulation & policy</u>	Prof. Dr. Aldo Faisal	Wednesday 10:00-12:00
Independent Study	<u>Philosophical Writing Workshop</u>	Prof. Dr. Lena Kästner	Block course 09.-10.02.2026
	<u>Philosophy, Computer Science & AI: Contemporary Issues</u>	Prof. Dr. Lena Kästner	Tuesday 14:00-16:00
	<u>Research Project Data Mining in Marketing with R and Python</u>	Prof. Dr. Daniel Baier	Friday 08:00-10:00