



Philosophy & Computer Science

Welcome back to Bayreuth!

To help you plan your second semester, we've put together a short overview tailored to your track.

Enclosed you will find:

- 1) A list of courses you can take
- 2) Sample Schedules for the *Philosopher's* and *Computer Science's Track*

Students that belong to the *Mixed* or *Development Track* are asked to individually compile a schedule. If you need help with this, you are welcome to contact us.

NOTE: This is not an exhaustive list of courses; you should also explore courses on CMLife.

Philosopher's Track (Summer 2026)

Ideally, you have completed the following modules in the first semester:

- **Computational Thinking**
- **Minds and Machines**
- **Theoretical Computer Science**
- **Data Modelling & Analysis**
- **Mathematical Thinking** (1 or 2 courses, if you took only one course in Mathematical Thinking in the first semester, you should take the second one now in the second semester, e.g., Mathematical Foundations 2 (Thursday 12:00-14:00))
- **Advanced Philosophy Seminar**

The courses in the following sample schedule for the summer semester build on these foundations. If you have not yet taken all these courses in the last semester (especially if you only took one Mathematical Thinking course), you will need to adjust your plan accordingly.

In the second semester you should take the following modules:

- **Applied Computer Science**
- **Machine Ethics**
- **Advanced Computer Science Seminar (choose one from the list)**
- **Specialization Seminar** (choose one or more Specializations Seminars; we recommend two specialization seminars if you plan to do a 12-week-internship in the third semester, so you can fully focus on that)
- **Independent Study** (we recommend at least attendance of the Interdisciplinary Lecture Series: AI in Science and Society)
- Additionally, we recommend participation in the Philosophy Research Forum (no credit)

IMPORTANT: Many advanced Computer Science courses have specific prerequisites and expect a solid technical background. Please make sure you meet these requirements and, if in doubt, check with the lecturer — CS instructors can be quite strict about this.

IMPORTANT: Students planning to work on their thesis can take the **P&CS Thesis Seminar (Thursday 10:00 – 12:00)**

List of Courses

Module	Course(s)	Time
Applied Computer Science	Intelligent User Interface	Lecture: Thursday 14:00-16:00 Tutorial slot 1 Wed 4-6pm Tutorial slot 2 Thu 10-12 (visiting one tutorial slot is enough)
Machine Ethics	Machine Ethics	Wednesday, 14:00 – 16:00
(Mathematical Thinking) ¹	Mathematical Foundations 2	Lecture: Thursday 12:00-14:00 Tutorial: Monday 12:00-14:00
	Data Analysis in R	Wednesday, 10:00-12:00
Advanced Computer Science Seminar	Information Visualization	Lecture Tuesday 14:00-16:00 Tutorial Tuesday 16:00-18:00
	Graph Processing and Machine Learning (GPML)	Tuesday 16:00 – 18:00
Advanced Philosophy	AI and The Future of Work	Tuesday 8:00 – 10:00
	Evolution and Rationality	Tuesday 12:00-14:00
	Five men on the market (or: Some recent defences of market libertarianism)	Monday 12:00 – 14:00
	Ethics under Uncertainty	Tuesday 12:00 – 14:00
Specialization Seminars	Political Philosophy (Lecture)	Wednesday 16:00 – 18:00
	Seminar Critical Data Studies	Thursday 10:00 – 12:00
	Principles of Entrepreneurship	Timings not yet available
	Seminar Introduction to Computer Assisted Text Analysis (African Studies and AI)	Monday 14:00 – 16:00
	Human AI Collaboration	Tuesday 14:30–16:30

¹ Only applies if you have only taken 1 course in Mathematical thinking in the first semester

	Causal Inference	Tuesday and Wednesday 14:00-16:00
	Epistemic Injustice	Wednesday 14:00 – 16:00
	AI, Robots, Superintelligence: Philosophy in Fiction	Thursday 8:00 – 10:00
	AI and The Future of Work	Tuesday 8:00 – 10:00
	Machine Learning Methods in Healthcare	Timings not yet Available
	Seeing You, Knowing You: Emotional expression and Social Cognition	Thursday 14:00-16:00
Independent Study	Philosophy, Computer Science & AI: Contemporary Issues (Research Seminar)	Tuesday 14:00 – 16:00
	Philosophical Writing Workshop	Block course, July 21 st -23 rd
Thesis Seminar	P&CS Thesis Seminar	Thursday 10:00 – 12:00
Additionally Recommended (No credit)	Philosophy Research Forum	Tuesday 16:00 - 18:00

Sample Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00 – 10:00		AI and The Future of Work		AI, Robots, Superintelligence: Philosophy in Fiction	
10:00 – 12:00				Critical Data Studies	
12:00 – 14:00	Mathematical Foundations 2 (Tutorial)	Ethics under Uncertainty		Mathematical Foundations 2	
14:00 – 16:00		Information Visualization	Machine Ethics	Intelligent User Interface	
16:00 – 18:00		Information Visualization (Tutorial) OR Graph Processing & Machine Learning			
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 (Summer 2026)

Ideally, you have completed the following modules in the first semester:

- **Analytical Thinking**
- **Practical Philosophy**
- **Theoretical Philosophy** if you didn't take the course in the first semester you can take: Epistemology (Thursdays 10:00-12:00)
- **Data Modeling & Analysis**
- **Mathematical Thinking** 1 or 2 courses, if you took only one course in Mathematical Thinking in the first semester, you should take the second one now in the second semester.

The courses in the following sample schedule for the summer semester build on these foundations. If you have not yet taken all these courses in the last semester (especially if you only took one Mathematical Thinking course), you will need to adjust your plan accordingly.

In the second semester you should take the following modules:

- **Machine Ethics**
- **Advanced Computer Science Seminar** (choose one from the list)
- **Advanced Philosophy Seminar** (choose one from the list)
- **Specialization Seminar** (choose one or more Specializations Seminars; we recommend two specialization seminars if you plan to do a 12-week-internship in the third semester, so you can fully focus on that)
- **Independent Study** (we recommend at least attendance of the Interdisciplinary Lecture Series: AI in Science and Society)
- Additionally, we recommend participation in the Philosophy Research Forum (no credit)

IMPORTANT: When taking Philosophy courses, please ensure that you have the necessary background in philosophical methods and concepts. Some courses assume prior experience with reading and discussing philosophical texts, so if you're unsure, it's best to consult the lecturer in advance.

IMPORTANT: Students planning to work on their thesis can take the **P&CS Thesis Seminar (Thursday 10:00 – 12:00)**

List of Courses

Module	Course(s)	Time
Machine Ethics	Machine Ethics	Wednesday, 14:00 – 16:00
(Mathematical Thinking)	Mathematical Foundations 2	Lecture: Thursday 12:00-14:00 Tutorial: Monday 12:00-14:00
	Data Analysis in R	Wednesday, 10:00-12:00
Analytical Thinking	AI, Robots, Superintelligence: Philosophy in Fiction	Thursday 8:00 – 10:00
Theoretical Philosophy	Epistemology	Wednesday 10:00 – 12:00
Advanced Computer Science	Information Visualization	Lecture Tuesday 14:00-16:00 Tutorial Tuesday 16:00-18:00
	Graph Processing and Machine Learning (GPML)	Tuesday 16:00 – 18:00
Advanced Philosophy Seminar	AI and The Future of Work	Tuesday 8:00 – 10:00
	Evolution and Rationality	Tuesday 12:00-14:00
	Five men on the market (or: Some recent defences of market libertarianism)	Monday 12:00 – 14:00
	Ethics under Uncertainty	Tuesday 12:00 – 14:00
Specialization Seminars	Political Philosophy (Lecture)	Wednesday 16:00 – 18:00
	Seminar Critical Data Studies	Thursday 10:00 – 12:00
	Principles of Entrepreneurship	<i>Time not yet available</i>
	Seminar Introduction to Computer Text Analysis (African Studies and AI)	Monday 14:00 – 16:00
	Human AI Collaboration	Tuesday 14:30–16:30
	Causal Inference	Tuesday and Wednesday 14:00-16:00
	Impact Entrepreneurship	Block Course on Friday and Saturday, (17.4.26, 18.04.26, 7.10.26)
	Epistemic Injustice	Wednesday 14:00 – 16:00
	AI, Robots, Superintelligence: Philosophy in Fiction	Thursday 8:00 – 10:00
	AI and The Future of Work	Tuesday 8:00 – 10:00
	Machine Learning Methods in Healthcare	<i>Timings not yet Available</i>
	Seeing You, Knowing You: Emotional expression and Social Cognition	Thursday 14:00 – 16:00

Independent Study	Philosophy, Computer Science & AI: Contemporary Issues (Research Seminar)	Tuesday 14:00 – 16:00
	Philosophical Writing Workshop	Block course, July 21 st –23 rd
Thesis Seminar	P&CS Thesis Seminar	Thursday 10:00 – 12:00
Additionally Recommended (No credit)	Philosophy Research Forum	Tuesday 16:00 - 18:00

Sample Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00-10:00		AI and The Future of Work		AI, Robots, Superintelligence: Philosophy in Fiction	
10:00-12:00			Epistemology		
12:00-14:00		Ethics under Uncertainty			
14:00-16:00	Introduction to Computer Text Analysis	Information Visualization	Machine Ethics		
	OR Human-AI Collaboration (14:30 – 16:30)				
16:00-18:00		Graph Processing and Machine Learning			
		OR Information Visualization (Tutorial)			

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