

## Master Program: Module Overview

### Preparatory Courses (no credits; arranged before the official start of the lectures)

Preparatory Course I. Biostatistics

Preparatory Course II. Academic English

Preparatory Course III. Mathematics and Computerscience for Modeling

### Regular Courses (credits)

Sem.	Module	CP	
1.	<b>A1. Introduction to Cognitive Science</b> (lecture and seminar)	6	
	<b>BM. Basic Methods <sup>a</sup></b>	<b>min. 10</b>	
	BM1. Experimental Psychology Lab	6	
	BM2. Logic and Philosophical Methodology	6	
	BM3. Neural networks	3-6	
	BM4. Functional Neuroanatomy	3	
	<b>C. Topics Selection <sup>b</sup> (sem.1 &amp; sem. 2)</b>	<b>min. 24</b>	
	C1. Social Cognition & Meta-Science	6	
	C2. Perception & Action	6	
	C3. Memory, Learning and Decision Making	6	
	C4. Language, Logic & Categories	6	
			30/60
	2.	<b>C. Topics Selection <sup>b</sup> (sem.1 &amp; sem. 2)</b> rest for completion of the modules C1-C4	
<b>AM. Advanced Methods <sup>c</sup></b>		<b>min. 12</b>	
AM1. Theory formation and Conceptual Analysis		6	
AM2. Advanced Analysis of Language and Logic		6	
AM3. Behavior studies		3-6	
AM4. Computational Modeling		3-6	
AM5. Molecular Imaging		3-6	
AM6. EEG-training		3-6	
AM7. fMRI-training		3-6	
<b>D1. Free Selection</b>		<b>6-12</b>	
		60/60	
3.	<b>I. Interdisciplinary Research Area <sup>d</sup></b>	<b>min. 18</b>	
	I1. Focus Module Philosophy	3-9	
	I2. Focus Module Psychology	3-9	
	I3. Focus Module Computational Modeling	3-9	
	I4. Focus Module Neuroscience	3-9	
	<b>P1. Proposal Master Thesis</b>	<b>9</b>	
			90/120
4.	<b>M. Master Thesis and Oral Presentation</b>	<b>30</b>	
		120/120	

### In More Detail:

- ❖ Module A1 (Introduction to Cognitive Science) provides a detailed overview concerning the diversity of research areas in cognitive science. The corresponding lecture and seminar are mandatory for all students in the first semester.
- ❖ Module BM (Basic Methods) ensures that all students are familiar with all four basic methods that will be most relevant in the program. Typically, students take three modules and may skip one module that is closest to their study background.
- ❖ One of the basic skills that need to be acquired during the program is the ability to write academic essays. This skill is not taught as one of the Basic Methods. It needs to be acquired during your course work. To do so, each student should write at least one essay in their first year of study, typically in C1 to C4 (Topics Selection).
- ❖ Students must participate in all four modules C1 to C4 (Topics Selection) and have at least 6 CP in each module. You can and should complete all C modules within the first year.
- ❖ Take at least two modules in AM (Advanced Methods). The methods mediated should prepare students for their Master thesis. You must have at least 12 CP.
- ❖ Module D (Free Selection) provides 6 to 12 CP which can be gained in a flexible manner, for example, by means of additional courses in Topics Selection or an internship.
- ❖ Students take at least two modules in I (Interdisciplinary Research Area). If two modules are taken, each module requires 6 CP. If more modules are taken, each module needs to be completed with at least 3 CP. Courses in these modules normally consist of subject-related colloquia.
- ❖ Students can also attend some optional courses which are given in German language, this is limited to 15 CP in total.
- ❖ At the end of the third semester, students are supposed to write a proposal for their Master thesis that is evaluated by the first supervisor. This proposal provides 9 CP. No additional courses need to be attended for the completion of this module.
- ❖ In the last semester, you should complete your Master thesis of 30 CP.