

M.Sc. Integrative Neuroscience in Magdeburg, Germany

First part (Basic subjects)
Semester 1
You must take 30 CP total: 28 CP core courses (PF) plus 2 CP of 6 CP electives (WPF). An additional 2 CP are offered optionally.

1 SEMESTER	Modul GA1 Molecular and Cellular Neuroscience 9 CP (PF) + 2 CP (WPF)	Modul GB Systems and Behavioural Neuroscience 9 CP (PF)	Modul GC Theoretical and Computational Neuroscience 6 CP (PF) + 4 CP (WPF)	Modul X Professionalism 4 CP (PF) + 2 CP (WPF)
	Cellular Neurophysiology Lecture: 4 SWS / 4 CP Lab: 2 SWS / 2 CP	Integr. & Compar. Neuroanatomy Lecture: 4 SWS / 4 CP Lab: 2 SWS / 2 CP	Theoretical Neuroscience I Lecture: 3 SWS / 3 CP Tutorial (WPF): 2 SWS / 2 CP	Lab Rotation I Lab: 1,25 SWS / 4 CP
	Basic Molecular & Cell Biology Lecture: 3 SWS / 3 CP Seminar (WPF): 2 SWS / 2 CP	Neuroethology Lecture: 3 SWS / 3 CP	Mathematical foundations Lecture: 3 SWS / 3 CP Tutorial (WPF): 2 SWS / 2 CP	Journal Club Journal Club (optnl.): 2 SWS / 2 CP

First part (Basic subjects)
Semester 2
You must take 30 CP: 28 CP core courses (PF) plus 2 CP of 6 CP electives (WPF). An additional 2 CP are offered optionally.

2 SEMESTER	Modul GA2 Molecular and Cellular Neuroscience 12 CP (PF)	Modul GB Systems and Behavioural Neuroscience 6 CP (PF) + 2 CP (WPF)	Modul GC Theoretical and Computational Neuroscience 6 CP (PF) + 4 CP (WPF)	Modul X Professionalism 4 CP (PF) + 2 CP (WPF)
	Molecular & Cellular Neurobiology Lecture: 4 SWS / 4 CP Lab: 2 SWS / 2 CP	Systems Neurophysiology Lecture: 3 SWS / 3 CP Lab (WPF): 2 SWS / 2 CP	Theoretical Neuroscience II Lecture: 3 SWS / 3 CP Seminar (WPF): 2 SWS / 2 CP	Lab Rotation II Lab: 1,25 SWS / 4 CP
	Development & Plasticity Lecture: 4 SWS / 4 CP Seminar: 2 SWS / 2 CP	Learning & Memory Lecture: 3 SWS / 3 CP	Biological Statistics Lecture: 3 SWS / 3 CP Seminar (WPF): 2 SWS / 2 CP	Journal Club Seminar (optnl.): 2 SWS / 2 CP

Second part (Advanced subjects)
Semester 3
You must take 30 CP: 24 CP of 36 CP electives (WPF) plus 6 CP core courses (PF). An additional 2 CP are offered optionally.

3 SEMESTER	Modul VA Molecular and Cellular Neuroscience 12 CP (WPF)	Modul VB Systems and Behavioural Neuroscience 12 CP (WPF)	Modul VC Theoretical and Computational Neuroscience 4 CP (WPF)	Modul VD Clinical and Applied Neuroscience 8 CP (WPF)	Modul X Professionalism 6 CP (PF) + 2 CP (WF)
	Neurogenetics Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP	Cognitive Neurobiology Lecture (WPF): 3 SWS / 4 CP	Spiking Networks Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP	Clinical Neuroscience Lecture (WPF): 3 SWS / 4 CP	Scientific Ethics Lecture (PF): 2 SWS / 2 CP
	Neuroimmunology, -endocrinology Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP	Macroimaging Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP		Behavioural Pharmacology Lecture (WPF): 3 SWS / 4 CP	Lab Rotation III Lab (PF): 1,25 SWS / 4 CP
	Neural Signalling Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP	Microimaging Lecture (WPF): 2 SWS / 3 CP Lab (WPF): 1 SWS / 1 CP			Journal Club Seminar (optnl.): 2 SWS / 2 CP

Third part (Thesis research)
Semester 4
You must take 30 CP cor courses (PF). An additional 2 CP are offered optionally.

4 SEMESTER	Masterarbeit 28 CP	Modul X Professionalism 30 CP (PF) + 2 CP (WF)
		Scientific Writing Lecture (PF): 2 SWS / 2 CP
		Journal Club Seminar (optnl.): 2 SWS / 2 CP