List of all M.Sc. Neuroscience Modules (year 2018/19) http://www.uni-oldenburg.de/en/master-neuroscience.de

	NR	Module	Shared / similar previous Module	Teachers	Winter Semester 1. Half	Winter Semester 2. Half	Semester break	Summer Semester 1. Half	Summer Semester 2. Half	Semester break
Background Modules	neu350	Biological Foundations of Neuroscience		Puller, Greschner, Hartmann, Koch et al	6 CP					
	neu305	Essentials fMRI data analysis SPM/FSL	psy275, neu300	Wreda, Sörös	6 CP					
	bio845	Introduction Development & Evolution	bio840, neu110	Sienknecht, Nothwang, Köppl	6 CP					
	bio846	Lab Exercise in Devo & Evo	bio840, neu120	Sienknecht, Nothwang, Köppl		6 CP				
	bio605	Molecular Genetics & Cell Biology	bio600, neu170	Koch, Neidhardt, Thedieck	12 CP					
	neu320	Introduction to Neurophysics		Anemüller	weekly course 6 CP					
	neu241	Computational Neurosci. - Introduction	neu240	Kretzberg, Greschner, Hildebrandt		12 CP				
	bio695	Biochem. Conc. in Signal Transduct.	bio690, neu190	Koch, Scholten		12 CP				
	neu210	Neurosensory Science & Behaviour	bio610	Klump, Hildebrandt, Langemann, Mouritsen		9 CP				
	neu220	Neurocognition & Psychopharmacology	bio610, psy180	Thiel, Giessing		6 CP				
	neu280	Research Techniques in Neuroscience		Hartmann, Nothwang, Thiel, Neidhardt, et al			6 CP			
	neu141	Visual Neurosci. - Physiology & Anatomy	bio620, neu140/15	Greschner, Dedek, Janssen-Bienhold, Puller				12 CP		
	neu150	Visual Neurosci.: Anatomy	bio620, neu141	Janssen-Bienhold, Puller				6 CP		
	neu250	Comp. Neurosci. - Statistical Learning	(sy220	Anemüller, Rieger				6 CP		
	neu290	Biophysics of Sensory Reception		Winklhofer					6 CP	
	neu360	Auditory Neuroscience		Klump, Köppl					6 CP	
	neu310	Psychophysics of Hearing	bio640, neu270	Klump, Langemann					12 CP	
	neu300	Functional MRI Data Analysis	psy270, neu305	Thiel, Gießing					12 CP	
	neu340	Invertebrate Neuroscience		Kretzberg					6 CP	
	neu345	Neural Computation in Invertebrates		Kretzberg						6 CP
Skills Modules	neu710	Neuroscientific Data Analysis in Matlab	neu800	Hildebrandt	6 CP					
	neu770	Basics of Statistical Data Analysis		Sobotka	weekly course 6 CP					
	neu790	Communicating Neuroscience		Kretzberg, Köppl, Hildebrandt	weekly course 3 CP			weekly course 3 CP		
	neu720	Statistical Programming in R		Sobotka				weekly course 6 CP		
	neu730	Biowiss. i. d. gesellschaftl. Debatte	pb227	Köppl, Sienknecht				weekly course 6 CP		
	neu740	Molecular Mechanisms of Ageing	pb193	Thedieck				irregular meetings 6 CP		
	neu751	Laboratory Animal Science	neu150	Köppl, Klump, Langemann			3 CP			3 CP
	neu780	Introduction Data Analysis with Python		Winklhofer			6 CP			
	neu760	Scientific English		Manley, Köppl, Hildebrandt				6 CP		
	neu800	Introduction to Matlab	neu710, neu270	Gießing					3 CP	
	neu810	International Meeting Contribution		Kretzberg, Köppl, Hildebrandt	3 CP flexible timing					
Res.	neu600	Neuroscience Research Project (see list)		all teachers	15 CP flexible timing					
	neu610	External Research Module		all teachers	15 CP flexible timing					
MT	mam	Master Thesis Module		all teachers	30 CP flexible timing					

Legend:

full-time courses with fixed time slots

part-time courses with fixed time slots

CP credit point, ECTS (30h work load)

Program requirements:

- 30 CP Master Thesis Module
- 30 CP Background Modules
- 15 CP Research Modules
- 6 CP Skills Modules
- 9 CP any further module(s) from Neuroscience curriculum
- 30 CP free choice: any further Neuroscience module(s) or (subject to approval) courses from other M.Sc. programs, from other universities, or from abroad.

Modules with shared course components, similar content or previous versions (see list) cannot be credited twice.

Modules neu600 and neu610 offer several project options and can be credited up to three times for different projects.

Recommendations:

- For students with neuroscience course requirement or with little biological background, it is recommended to start with 'biological foundations' (neu350) in the first half of the first semester.
- For students with mathematics course requirement or with little programming experience, it is recommended to start with Matlab (neu710) in the first half of the first semester.
- The combination of 'biological foundations' (neu350) and Matlab (neu710) provides a good starting point for many students.
- Research modules are individual research projects in a neuroscience lab. Please find the separate list of project options for each semester in Stud.IP.
- Before joining the group of a supervisor for a research module, it is recommended to take at least one of the background modules this supervisor teaches.
- In many groups, research modules are flexible in time, e.g. allowing combination with semester-long courses, including courses from other Master's programs.
- Please find a list of approved free choice courses from other M.Sc. programs at our homepage http://www.uni-oldenburg.de/en/master-neuroscience.de
- For more information please contact the program directors master-neuroscience@uni-oldenburg.de or the student body fachschaft-neuroscience@uni-oldenburg.de