





M.Sc. Neuroscience (year 2017/2018)

<http://www.uni-oldenburg.de/en/master-neuroscience.de>

NR	Module	Shared / (similar) Modules	Teachers	Winter Semester		Semester break	Summer Semester		Semester break
				1. Half	2. Half		1. Half	2. Half	
neu280	Research Techniques in Neuroscience		Hartmann, Nothwang, Thiel, Neidhardt, et al	6 CP					
neu110	Development & Evolution	bio840	Sienknecht, Nothwang, Köppl	9 CP					
neu120	Lab Exercise in Devo & Evo		Sienknecht, Nothwang, Köppl		6 CP				
neu170	Molecular Genetics & Cell Biology	bio600	Koch, Neidhardt, Thedieck	15 CP					
neu305	Essentials fMRI data analysis SPM/FSL	psy275, (neu300)	Wreda, Sörös	6 CP					
neu320	Introduction to Neurophysics		Anemüller	weekly course 6 CP					
neu240	Computational Neurosci. - Introduction		Kretzberg, Greschner, Hildebrandt		12 CP				
neu190	Biochem. Conc. in Signal Transduct.	bio690	Koch, Scholten		15 CP				
neu210	Neurosensory Science & Behaviour A	bio610	Klump, Hildebrandt, Langemann, Mouritsen		9 CP				
neu220	Neurosensory Science & Behaviour B	bio610, psy180	Thiel, Giessing		6 CP				
neu250	Comp. Neurosci. - Statistical Learning	(psy220)	Kretzberg, Rieger, Anemüller				6 CP		
neu290	Biophysics of sensory reception		Winklhofer				6 CP		
neu140	Neurophysiology	bio620	Greschner, Dedek				9 CP		
neu150	Neuroanatomy		Janssen-Bienholdt, Dedek				6 CP		
neu310	Psychophysics of hearing	bio640	Klump, Langemann					12 CP	
neu300	Functional MRI data analysis	bio640	Thiel, Gießing					12 CP	
neuXX	Invertebrate Neurophysiology		Kretzberg					12 CP	
neu410	Auditory Neuroscience		Klump, Köppl, Hildebrandt	15 CP					
neu470	Molecular Sensory Neuroscience	bio680	Koch, Nothwang, Neidhardt, Thedieck	15 CP			15 CP		
neu540	Neural Basis of Perception		Kretzberg, Klump, Mouritsen, Winklhofer	15 CP				15 CP	
neu440	Visual Neuroscience		Janssen-Bienholdt, Dedek, Greschner		15 CP			15 CP	
neu510	Computation in Sensory Systems	(psy260)	Kretzberg, Greschner, Hildebrandt, Rieger		15 CP			15 CP	
neu570	Develop & Evolution Auditory System	bio850	Sienknecht, Nothwang, Köppl		15 CP				
neu610	External Research Project		all teachers			15 CP			15 CP
neu710	Neuroscientific Data Analysis in Matlab	(pb150)	Hildebrandt	6 CP					
neu770	Basics of Statistical Data Analysis		Sobotka	weekly course 6 CP					
neu790	Communicating Neuroscience		Kretzberg, Köppl, Hildebrandt	weekly course 3 CP					
neu720	Statistical Programming in R	(ph050)	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		
neu750	Laboratory Animal Science		Köppl, Klump, Langemann			3 CP			3 CP
neu760	Scientific English		Hildebrandt			6 CP			
neu780	Introduction Data Analysis with Python		Winklhofer			6 CP			
neu800	Introduction to Matlab		Gießing					3 CP	
mam	Master Thesis Module		all teachers					30 CP	

Legend:

-  full-time courses with fixed time slots
-  part-time courses with fixed time slots
-  preferred time slots of projects
-  Individual project time slots can be discussed with supervisor

CP credit point, ECTS (30h work load)

neuXX new modules, will receive numbers soon.

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 or similar content (see list) cannot be credited twice.

Recommendations:

- For most students, it is recommended to start with Research Techniques (neu280) and Matlab (neu710) in the first half of the first semester.
- Research modules are individual research projects in a neuroscience lab. 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 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