

# M.Sc. Biology

## Module contribution to cross-disciplinary study aims

		deepened biological expertise	deepened knowledge of biological working methods	data analysis skills	interdisciplinary thinking	critical and analytical thinking	independent searching and knowledge of scientific literature	ability to perform independent biological research	data presentation and disc. in German and English (written and spoken)	teamwork	ethics and professional behaviour	project and time management	statistics & scientific programming
bio703	Basic Concepts in Plant Sciences	++	+	+	+	++	++	+	++	+	++		
bio655	Ornithologie	++	+			+	+		++				
bio733	Evolutionary Population Genetics	+	++	++		++	++		++	+			++
bio736	Evolutionary Transcriptomics	+	++	++		++	+		++				++
bio845	Development & Evolution	++	+		++	++	+	+		+			
bio846	Lab Exercises in Development & Evolution	++	++	++		++	+	++	++	++	++	++	
bio605	Molecular Genetics & Cell Biology	++	++	+	++	+	+		+	+	+	+	
bio765	Current Methods in Plant Sciences - Ecology, Phylogeny and Molecular Biology	++	++	++	++	+	+	+	+	+			+
bio720	Marine Biodiversität	++	++	++	++	++	++	++	++	++	+	+	++
bio695	Biochem. Conc. in Signal Transduct.	++	++	++	+	++	+		++	+		+	
bio675	Molecular Ecology	++	++	++	+	+	+	++	++				+
bio860	Comparative Developmental Biology	++	++	++	+	++	+	++	++	+	+	++	
bio770	Field Methods in Organismal Biology	++	++	++	+	++	++	++	+			++	++
bio780	Biodiversität litoraler Lebensgemeinschaften		+					+		++	+	+	
bio870	Communicating Biology				+	++	++	++					
bio880	Plant Diversity	+	++	++		+	++	+	++	+			+
bio890	Current Topics in Biology**	+		+	++	++			++				
bio810	External Research Project**	++	++	++		++	++	++	++	+		++	++
bio900	Biology Research Module**	+	++	++		+	++	++	++	+		++	++
mam	Master Thesis Module	++	++	++		++	+	++	++	+	+	++	

		neurosc. knowlg.	expt. methods	maths/stats /progr.	interdiscipl. knowlg.	data present. /disc.	scient. literature	independent research	scientific English	social skills	ethics
neu210	Neurosensory Science & Behaviour	++	+		++	+	+	+	+	+	
neu220	Neurocognition & Psychopharmacology	++	+		++	+	+		+	+	
neu141	Visual Neuroscience: Physiology & Anatomy	++	++	+		++	++	+	+	+	+
neu150	Visual Neuroscience: Anatomy	++	++			+	+		+		
neu290	Biophysics of sensory reception	++			++	+	+	+			
neu360	Auditory Neuroscience	++	+		++	++		++	++	+	+
neu340	Invertebrate Neuroscience	++	++	+		+	+		+	+	+
neu300	Functional MRI Data Analysis	+	++	++	+	+			+	+	
neu310	Psychophysics of Hearing	+	++	++		+			+	+	
neu790	Communicating Neuroscience	+			+	++	++	+	+	++	+
neu770	Basics of Statistical Data Analysis			++	+	+				+	
neu720	Statistical Programming in R			++	+				+	+	
neu730	Biowiss. i. d. gesellschaftl. Debatte					+	+			++	++
neu740	Molecular Mechanisms of Ageing	+	+		+	++	++		+	++	++
neu751	Laboratory Animal Science		++		++		+	+	+	++	++
neu760	Scientific English	+				++			++	++	
neu780	Introduction Data Analysis with Python	+		++		+					
neu800	Introduction to Matlab		++	++		+			+	+	
neu810	International Meeting Contribution	+			+	++	++	++	+	++	++

weak link

+ strong link

++ very strong link