

M.Sc. Molecular Biomedicine

Stand: 2025 /2026

Module Name	Type	Title	Abteilung (Lehrende)	Wintersemester		Lecture free period	Summersemester		Lecture free period
				1. Half	2. Half		1. Half	2. Half	
bio605	BM	Molecular Genetics & Cell Biology	Human genetics (Neidhardt), Biochemistry (Koch)	12 CP					
bio695	BM	Biochemical Concepts in Signaltransduction	Biochemistry (Koch, Scholten)		12 CP				
bio845	BM	Introduction to Development and Evolution	Cochlea and auditory brainstem physiology (Sienknecht)	6 CP					
gsw050	BM	Current Topics in Genetics	Child and Adolescent Psychiatry (Grothe)					6 CP	
gsw010	BM	Molecular Physiology	Physiology (Milenkovic)	6 CP			6 CP		
gsw020	BM	Cellular and Subcellular Structures	Anatomy (Maier)	6 CP					
gsw270	BM	Introduction to Human Anatomy	Anatomy (Maier)		3 CP				
gsw231	BM	Molecular Pharmycology and Toxicology	Pharmacology and Toxicology (Rauch)	6 CP					
gsw235	BM	Practical Molecular Pharmacology	Pharmacology and Toxicology (Rauch)						6 CP
neu141	BM	Visual Neuroscience - Physiology and Anatomy	Visual Neuroscience (Greschner, Dedek, Dömer, Ahlers)				12 CP		
gsw240	BM	Basic Immunology in Health & Disease	Immunology (Loser)		WiSe 2025				
gsw250	BM	Molecular Microbiology	Medical Microbiology and Virology (N.N.)		6 CP				
gsw260	BM	Molecular Virology	Medical Microbiology and Virology (Kinast)		6 CP				
gsw030	BM	Biophysical Chemistry	Sensory Biology of Animals (Winklhofer)					6 CP	
gsw090	CM	Current Topics in Clinical Research	Several teachers from clinics (e.g. Heep, Radeloff, et al)	6 CP			6 CP		
gsw100	CM	Immunology and Inflammation	Immunology (Loser)	6 CP			6 CP		
gsw110	CM	Clinical Aspects of Degenerative Diseases	Geriatric Medicine (Zieschang)	6 CP					
gsw080	CM	Genetic Diagnostics: from chromosomal aberrations to gene mutations	Genetics of childhood brain malformations (Owczarek-Lipska)			6 CP			6 CP
gsw130	CM	Regenerative Medicine in Ophthalmology	Ophthalmology (Mertsch)			WiSe 2025			6 CP
gsw070	CM	Gene-based Therapies in Human diseases	Human genetics (Neidhardt, Jüschke)		6 CP		6 CP		
gsw060	CM	Epigenetics and Gene Regulation	Perinatal Neurobiology (Plösch, Hinz)				6 CP		
gsw120	CM	Tumor Biology	Gynaecology and Obstetrics (Dübbel)			6 CP			
gsw190	SM	Journal Club	Ophthalmology (Mertsch)	3 CP			3 CP		
gsw215	SM	Introduction to academic writing	Neurosurgery (Helgers)	3 CP					
gsw200	SM	Microscopic Imaging in Biomedical Sciences	Neurosensarik (Dedek), Ultraschnelle Nanooptik (Groß)	3 CP					
gsw220	SM	Bioinformatics and Omics	Medical Genetics (Hitz)						6 CP
gsw170	SM	Research Techniques Molecular Biomedicine	Neurogenetics (Hartmann)		6 CP				
gsw180	SM	Ethics in Medicine	Ethik in der Medizin (Schweda)	3 CP			3 CP		
gsw210	SM	Scientific Communication	Perinatal Neurobiology (Plösch)			6 CP			6 CP
neu760	SM	Scientific English	Sensory Physiology and Behaviour (Albert)			6 CP			
neu 751	SM	Laboratory Animal Science	Neurosurgery, Tierhaus (Helgers)		3 CP		3 CP		3 CP
gsw150	RM	Research Project Molecular Biomedicine	all teachers	15 CP					
gsw160	RM	External Research Project Molecular Biomedicine	all teachers	15 CP					
mam	MA	Master Thesis Module	all teachers	30 CP					

Background Modules (BM)

Clinical Modules (CM)

Research Modules (RM)

Skills Modules (SM)

Master Thesis Module

