

MBLS major 2024/2025

Mandatory course

Elective course

MBLS profiles

1 = Genes to Organisms

2 = Molecules & Cells

3 = Molecules & Medicine

4 = Biophysics & Modeling

Level 1

	Period 1	Period 2	Period 3	Period 4
AD	Cell Biology MBLS-101 Moe Abbas level 1	Organic Chemistry of Drug Molecules MBLS-103 Dirk Rijkers level 1	Prep4Physics MBLS-108 Nico Groenenboom level 1	Biological Physics MBLS-106 Marco Locarno level 1
BC	Mathematics & Programming MBLS-102 Rogier Bos & Leonie v Steijn level 1	Physical Chemistry for the Life Sciences MBLS-104 Markus Weingarth level 1	Biomolecular Chemistry MBLS-105 Arnold Boersma level 1	Functional Biology MBLS-107 Jason Gardiner level 1

Level 2

	Period 1	Period 2	Period 3	Period 4
AD	Molecular Biology & Biochemical Techniques MBLS-202 Gert Folkers level 2	Membranes & Metabolism MBLS-206 Toon de Kroon level 2	Genomes, Cells & Tissues MBLS-204 Ron Habets level 2	Neurobiology B-B2NEUR10 Ron Habets level 2
			Biochemical Pharmaceutics MBLS-205 Gert Folkers level 2	Host-microbe interactions B-B2HOMI24 Pim Goossens level 2
			NMR Spectroscopy & Molecular Modeling SK-B2NMRM Alexandre Bonvin level 2	
			Gene Regulation B-B2GERE23 Tuncay Baubec level 2	
BC	Biophysical Methods & Structural Biology MBLS-201 Joost Snijder level 2	Academic Writing & Statistics MBLS-203 Kim van Ommering & Leonie v Steijn level 2	Bioinformatics and Dynamical Modeling MBLS-207 Leonie van Steijn level 2	Physics of the Cell MBLS-208 Florian Berger level 2

Level 3

	Period 1	Period 2	Period 3	Period 4
AD	Immunobiology B-B3IMMB09 Can Kesmir level 3	Advanced Biotechnology B-B3ADBI21 Marcel Proveniers level 3	Protein Folding & Assembly SK-B3PFA Tessa Sinnige level 3	Pharmaceutics & Pharmacology MBLS-310 Rene van Nostrum level 3
	Medicinal Chemistry (theoretical part) FA-CPS312T Dirk Rijkers level 3	Neurobiology of Behaviour B-B3NEUB24 Habets / MacGillavry level 3	Molecular Cell Research B-B3MCR18 Laurens van Meeteren level 3	Organic Chemistry (practical part) FA-CPS311P John Kruijtzter level 3
	Toxicology BMW32106 Marianne Bol-Schoenmakers level 3	Introduction to Biological and Soft Matter Physics NS-379B Lisa Tran level 3	Omics in the Life Sciences MBLS-307 Dmitry Lapin level 3	Genome Bioinformatics B-B3BCG20 Michael Seidl level 3
BC	Trending Topics on Biomolecules SK-B3TTB Arnold Boersma level 3	Viral Diseases: Molecular mechanisms of infection SK-BVIZI Ineke Braakman level 3	Medicinal Chemistry SK-BMECH08 Dirk Rijkers level 3	Organic Chemistry (theoretical part) FA-CPS311T Roland Pieters level 3
	Future Medicines FA-BA314 Ed Moret level 3	Molecular Plant Microbe interactions B-B3MPMI18 Saskia van Wees level 3	Future Medicines FA-BA314 Ed Moret level 3	Advanced Structural Biology SK-B3ASB Bert Janssen level 3
	Medicinal Chemistry (practical part) FA-CPS312P John Kruijtzter level 3	Light and Electron Microscopy MBLS-305 Marco Locarno level 3	Developmental Biology & Genetics B-B3OBG05 Mike Boxem level 3	
			Mass Spectrometry of Proteins SK-B3MASP Joost Snijder level 2	
			Computational Biology B-B3COMB10 Paulien Hogeweg level 3	
AD BC		Research Project Bijvoet MBLS-300 Hugo van Ingen level 3		Research Project Bijvoet MBLS-300 Hugo van Ingen level 3
AD BC	Bachelor Thesis project (15EC) MBLS-399			