

Exemplary and overlapfree Curriculum (Mobility window exemplary; Stand: 20.11.2023)

Variant 1 specializing in **Plant Sciences, Genomics/Biostatistics, Microbiology**

Semester	Modules						Exams/ Credits
1.	WZ1718 Research Project Horticultural Economics and Management (specializing in plant sciences)  W 10 CP	WZ4020 Effects of climate change on Plant Physiology (specializing in plant sciences)  M 5 CP	WZ2372 Pathogenic Microorganisms (specializing in microbiology)  K 5 CP	WZ2629 Research project chemical genetics (specializing in Genomics/ Biostatistics)  LL 10 CP			4 30
2.	WZ2381 Plant systems biology (specializing in plant sciences)  W 5 CP	WZ2424 Biotic plant stress physiology (specializing in plant sciences)  K 5 CP	WZ2626 applied Microbiology (specializing in microbiology)  K 5 CP	WZ2620 Applications of Evolutionary Theory in Agriculture. Population Genomics of Crop Pathogens and Disease Management (specializing in Genomics/ Biostatistics)  W 5 CP	WZ2662 Modern Topics in Evolutionary Biology (specializing in Genomics/ Biostatistics)  W 5 CP	WZ5440 Make your thing! A Project in the Makerspace (interdisciplinary qualifications)  PRÄ 5 CP	6 30
3.	WZ1035 Host-Parasite Interaction (specializing in plant sciences)  K 5 CP	WZ1817 Research project molecular fungal genetics (specializing in microbiology)  LL 10 CP	WZ2375 Evolution of Pathogens (specializing in microbiology)  K 5 CP	WZ1185 Plant Epigenetics and Epigenomics (specializing in Genomics/ Biostatistics)  PRÄ 5 CP	WZ2659 Speciation from population genetics to phylogenetics (specializing in Genomics/ Biostatistics)  K 5 CP		5 30
4.	WZ2590 Master's Thesis incl. scientific project planning (required) 30 CP						30
Key	Light Blue = specializing in plant sciences Grey = specializing in Microbiology Green = specializing in Genomics/Biostatistics Orange = interdisciplinary Qualifications Dark Blue = required module Master's Thesis			CP = Credit Points; M = oral exam PRÄ = Presentation W = research paper LL = laboratory course SL = Studienleistung			

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Variant 2 specializing in **Biochemistry/cell Biology, Medical Biology, Ecology/Environmental Management**

Semester	Modules						Exams/ Credits
1.	ME2656 Development of Vaccines against infectious diseases (specializing in medical Biology)  PRÄ 5 CP	ME2648 Molecular Oncology (specializing in medical Biology)  K + W (SL) 5 CP	WZ2732 Environmental monitoring and Data Analysis (specializing in Ecology/Environmental Management)  W 5 CP	WZ6318 Geological Fundamentals of Bavarian Landscapes (specializing in Ecology/Environmental Management)  K 5 CP	WZ1416 Research project: Chemistry of plant insect interactions (specializing in Ecology/Environmental Management)  LL 10 CP		6 30
2.	WZ2580 Protein-Engineering (specializing in Biochemistry/cell biology)  K 5 CP	WZ2388 Techniques in cell biology (specializing in Biochemistry/cell biology)  K 5 CP	CS0076 Enzyme Engineering (specializing in Biochemistry/cell biology)  ÜL 5 CP	ME2413 Pharmacology and Toxicology for students of Life Sciences (specializing in medical Biology)  K 5 CP	ME2649 Molecular Oncology II (specializing in medical Biology)  ÜL 5 CP	MW2473 Advances in Biotechnology (interdisciplinary Qualifications)	6 30
						B 5 CP	
3.	LS20001 Research Internship Metabolic Programming (specializing in Biochemistry/cell biology)  LL 10 CP	ME2414 Research Project Pharmacology and Toxicology (specializing in medical Biology)  LL 10 CP	WZ6300 Ecosystem management and applied restoration ecology (specializing in Ecology/Environmental Management)  W 5 CP	WZ4189 Fisheries and Aquatic Conservation (specializing in Ecology/Environmental Management)  K + PRÄ 5 CP			5 30
4.	WZ2590 Master's Thesis incl. scientific project planning (required) 30 CP						30
Key	Light Blue = specializing in Biochemistry/Cell Biology Grey = specializing in medical biology Green = specializing in ecology/environmental management Orange = interdisciplinary qualifications Dark Blue = required module Master's Thesis			CP = Credit Points PRÄ = Presentation; ÜL = exercises K = written exam; M = oral exam W = research paper B = report; LL = Laboratory course SL = course work			

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Variant 3: **Animal Sciences, Plant Sciences, Genomics/Biostatistics** (english)

Semester	Modules					exams/ Credits
1.	WZ1718 Research Project Horticultural Economics and Management (specializing in Plant Sciences)  W 10 CP	WZ1035 Host-Parasite Interaction (specializing in Plant Sciences)  K 5 CP	WZ2404 Introduction to Mammalian Cell Culture (specializing in Animal Sciences)  LL + PRÄ 5 CP	WZ2405 Phylogeny and Zoology of Vertebrates (specializing in Animal Sciences)  K 5 CP	WZ1092 Transgenic Animals in Agriculture and in Biomedicine (interdisciplinary Qualifications)  M 5 CP	6 30
2.	WZ2381 Plant Systems Biology (specializing in Plant Sciences)  W 5 CP	WZ2581 Plant Biotechnology (specializing in Plant Sciences)  K 5 CP	LS20005 Models in Computational Neuroscience (specializing in Animal Sciences)  LL 10 CP	WZ2620 Applications of Evolutionary Theory in Agriculture. Population Genomics of Crop Pathogens and Disease Management (Wahl Genomics/ Biostatistics)  W 5 CP	WZ2662 Modern Topics in Evolutionary Biology (Wahl Genomics/ Biostatistics)  W 5 CP	5 30
3.	ME2656 Development of Vaccines against Infectious Diseases (specializing in Medical Biology)  PRÄ 5 CP	WZ2629 Research Project Chemical Genetics (specializing in Genomics/Biostatistics)  LL 10 CP	WZ0033 Physiology of Growth, Reproduction and Lactation (specializing in Animal Sciences)  M 5 CP	WZ1185 Plant Epigenetics and Epigenomics (specializing in Genomics/Biostatistics)  PRÄ 5 CP	WZ2659 Speciation From Population Genetics to Phylogenetics (specializing in Genomics/Biostatistics)  K 5 CP	5 30
4.	WZ2590 Master's Thesis incl. Scientific project planning (required) 30 CP					30
Key	Light Blue = specializing in Plant Sciences Grey = specializing in Animal Sciences Green = specializing in Genomics/Biostatistics Orange = interdisciplinary Qualifications Dark Blue = required module Master's Thesis					CP = Credit Points; K = written exam; M = oral exam W = research paper PRÄ = Presentation; LL = laboratory course