

# Functional Genetics and Bioinformatics: **Bioinformatics**

(2-year Master's program, 120 credits; recommended study plan)

1 <sup>st</sup> Winter Semester	1 <sup>st</sup> Summer Semester	2 <sup>nd</sup> Winter Semester	2 <sup>nd</sup> Summer Semester
Introduction to Omics & Biotechnology (KMB/921) Practicals in Omics & Biotechnology (KMB/933) Seminars in Omics & Biotechnology (KMB/926) Practical Computing for Biologists (KMB/925) Bioinformatics for Biologists (KMB/615E) The New Statistics for Exp. Biologists (KMB/929) Bioethics (KMB/913) Masters Thesis Assignment (KMB/885) Master's English Examination – TOEFL (OJZ/930)	Master thesis, Practical part (KMB/881) Genetics – Colloquia (KMB/180) Cell Structure and Function (KMB/914) Essays in Omics & Biotechnology (KMB/918)	Master thesis, Practical part (KMB/881)	Master thesis, Practical part (KMB/881) Genetics – Colloquia (KMB/180)
	BASH Programming (KMB/934) Introduction to R (KMB/922) Genomics (KMB/919)	Transcriptomics and Epigenomics (KMB/930)	
		Data Analysis in Natural Sciences (UAI/330E) Python in Data Sciences (UAI/331) G2	Microbial Ecology and Genomics (KPA/172) G3
		Molecular Phylogenetics (KPA/604) Molecular Ecology (KZO/4121) G3	
Python I (UAI/735I) G1	Databases (UAI/697E) G1		
	Molecular Physiology and Metabolism (KMB/924) Structural Bioinformatics (KMB/927) G3		

Core courses (common to all): 75 credits

Obligatory courses: 19 credits

Obligatory elective courses: ≥ 4 credits of G1, ≥ 4 credits of G2, ≥ 9 credits of G3