

## Master Programme in Bioinformatics 2020/2021

	Autumn '20		Spring '20	
	Period 1 200831–201025	Period 2 201026–210117	Period 3 210118–210322	Period 4 210323–210606
Courses during the first year	<b>Biology Background</b> Introduction to Bioinformatics, 10 credits (1MB438)		<b>Both Backgrounds</b> Molecular Evolution, 5 credits (1MB461)   Genome Analysis, 10 credits (1MB462)	
	Introduction to Programming, Scientific Computing and Statistics, 10 credits (1TD349)	Programming in Python, 5 credits (1TD327) Database Design I, 5 credits (1DL301)	Information Management Systems, 10 credits (1DL471)	Big data in Life Sciences, 5 credits (1TD065)
	<b>Computer Science Background</b> Introduction to Bioinformatics, 10 credits (1MB438)			
	Introduction to Molecular Biology, Genetics and Evolution, 15 credits (1MB439)			
	Script Programming, 5 credits (1TD328)			
	Courses during the second year	<b>Both Backgrounds</b>		
Phylogenetic Analysis, 5 credits (1MB515)		Proteomics and metabolomics, 5 credits (1KB162)	Degree Project E in Bioinformatics, 30 credits (1MB830)	
Population Genetic Analysis, 5 credits (1MB514)		Applied Bioinformatics, 15 credits (1MB519)		
Statistical Inference for Bioinformatics, 5 credits (1MB459)				
Knowledge-Based Systems in Bioinformatics, 5 credits (1MB416)	Degree Project E in Bioinformatics, 45 credits (1MB745)			
Optional courses**	Literature Project in Bioinformatics, 5 credits (1MB782)		* (1MB720) Degree project D in Bioinformatics is only for students studying towards a one-year master. ** Optional courses are given in different periods and can replace other courses in the programme.  Note that an MSc degree may contain max 30 credits from basic level courses	
	Literature Project in Bioinformatics, 10 credits (1MB783)			
	Research Training in Bioinformatics, 10 credits (1MB803)			
	Research Training in Bioinformatics, 15 credits (1MB804)			
	Research Training in Bioinformatics, 20 credits (1MB805)			
	Project Work in Bioinformatics, 10 credits (1MB820)			
	Project Work in Bioinformatics, 20 credits (1MB822)			
	Degree Project D in Bioinformatics, 15 credits (1MB720)*			
	Computer Assisted Image Analysis I, 5 credits (1TD396)			
	Scientific Visualisation, 5 credits (1TD389)			
Algorithms and Data Structures I, 5 credits (1DL210)				