

	International Bologna Master in Bioinformatics				
1 st course	SSD	Denomination of Teaching/ Formation Activities	CFU	TOT CFU	
	MAT/08	Numerical Calculus	3	44 CFU	
	MAT/06 BIO/18	Probability and Statistics (3) Genetic analysis of human diseases (3)	6		
	INF/01 BIO/11	Databases and Information Systems (3) Biomedical Databases (3)	6		
	INF/01 INF/01	General Informatics (4) Algorithms and Data Structures (5)	9		
	INF/01	Soft Computing	6		
	FIS/07	Biophysics I	5		
	BIO/10 CHIM/03	Laboratory of Bioinformatics I (3) Molecular Recognition (3)	6		
	BIO/08	Molecular Anthropology	3		
	CHIM/08	Drug Design	5		14 CFU
	FIS/07	Biophysics II	5		
	BIO/10	Molecular Bioinformatics	5		
	BIO/10	Laboratory of Bioinformatics II	6		
	FIS/07	Elements of Biophysics	5		
		Bologna Offer for Biomedical Research			
	BIO/09	Cognitive Neurosciences	3		
	MED/04	Molecular Immunology	5		
	BIO/05	Molecular Phylogenesis and Evolution	5		
	MED/03	Bioinformatics for Medical Genetics	3		
	BIO/18	Elements of Functional Genomics	5		
	MED/03	Elements of Forensic Genetics	3		
	BIO/11	Proteomics	3		
		Bologna Offer for Advanced Technologies and Synthetic Biology			
	ING-INF/01	Biosensors	5		
	MED/04	Microarray Technologies	5		
	ING-INF/06	Models of Biological Systems II	5		
	CHIM/03	Molecular Nanotechnologies	5		
	CHIM/06	Nanobiotechnologies	5		
	INF/01	Simulation and Virtual Reality	5		

2 nd course	BIO/10	Computational Biology	3	10 CFU
	FIS/07	Models of Biological Systems I	4	
		Free-choice seminar	3	
	BIO/10	Theoretical and Molecular Biophysics I (5)	5	6 CFU
	BIO/10	Theoretical and Molecular Biophysics II (5)	5	
		Stage	12	46 CFU
		Final Examination	34	
				120 CFU

LEGEND

Compulsory academic activities

Free-choice academic activities

Bologna Offer

The University of Bologna recognises the 180 ECTS deriving from the Bachelor curriculum (first level degree) as “laurea di primo livello sequenziale”.