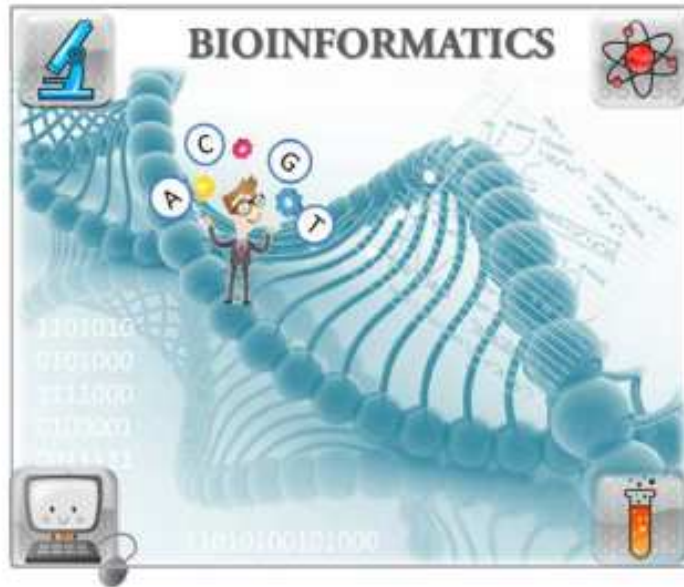




SAPIENZA
UNIVERSITÀ DI ROMA

Bachelor course in Bioinformatics in
English language



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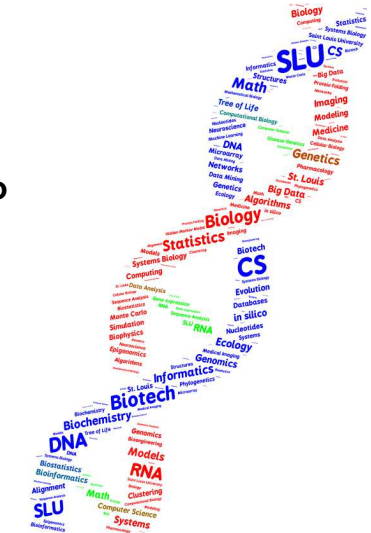
Admission: The enrolment is subjected to the result of the admission test and to the number of places reserved to EU (43) and non-EU (7) students. The candidate will have to apply (the call will be published in July 2018 on the Sapienza university web site) for the admission test which will be held in the month of September 2018 at Sapienza University. The test contains multiple-choice questions on Mathematics, Physics, Chemistry and Biology.

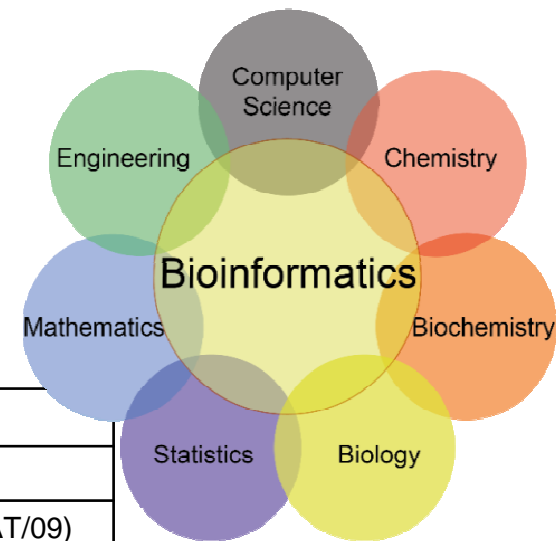
A B2 certificate of English language is required.

Tuitions: for foreign students without an income in Italy the course has a maximum cost around 1000 euro/year (500 euro/year if coming from third world countries) and increasing with the income for the others.

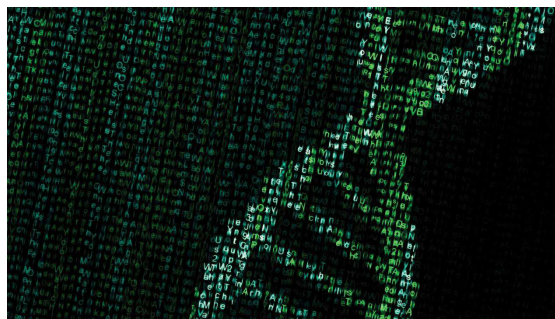
Program: see below

Start: October 2018

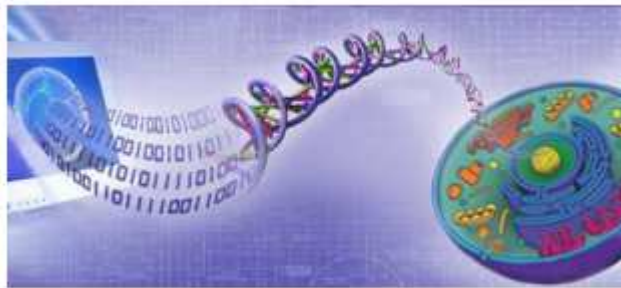




First year	
First term	Second term
Principles of Mathematics 1 (6 CFU MAT/09)	Principles of Mathematics 2 (6 CFU MAT/09)
Principles of Physics (6 CFU FIS/07)	
Organic and inorganic chemistry 1 (6 CFU CHIM/03)	Organic and inorganic chemistry 2 (6 CFU CHIM/06)
Biology of the cell 1 (6 CFU BIO/13)	Biology of the cell 2 (6 CFU BIO/13)
Principles of computer science I (6 CFU INF/01)	Introduction to biomedical statistics 1 (6 CFU SECS-S/01)
	Introduction to biomedical statistics 2 (6 CFU MED/01)
30 CFU	30 CFU



Second year	
First term	Second term
Molecular biology 1 (6 CFU BIO/11)	Molecular biology 2 (6 CFU BIO/11)
Genetics and computational genomics (6 CFU BIO/18)	Pharmaceutical chemistry (6 CFU CHIM/08) R
	Immunology and molecular pathologies (6 CFU MED/04)
Principles of computer science II (6 CFU ING-INF/05)	
Biochemistry 1 (6 CFU BIO/10)	Biochemistry 2 (6 CFU BIO/10)
Microbiology (6 CFU BIO/19)	Bioinformatics I (INF/01)
30 CFU	30 CFU



Third year	
First term	Second term
Bioinformatics II (6 CFU ING-INF/06)	Student's choice 12 CFU among: Modelling and simulation of biomolecular dynamical systems, Signal processing and information theory Algorithms, Complex biomolecular networks, Plant functional genomics, Principles of general pathology, Optimization methods for computational biology, Bioinformatics in plant pathology.
Bioethics (6 CFU MED/02)	Bioinformatic stage in a company or scientific institution (1-2 months, 18 CFU)
Molecular biology and genomics (6 CFU BIO/11)	