



UNIVERSITÀ DI PAVIA

Anno Accademico 2021/2022

MATHEMATICS (SURNAMES L-Z)

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	MAT/08 ()
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	BIOTECHNOLOGY
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	
Teacher	SEGATTI ANTONIO GIOVANNI - 6 ECTS
Prerequisites	
Learning outcomes	
Course contents	<p>After introducing the basic concepts of set theory and the numerical sets of natural, integer, rational, real and complex numbers, the fundamental topics in Mathematical Analysis will be introduced: concept of function, properties of functions of one real variable, limits of real functions, continuous functions, differentiation, graphical representation of functions, integration, exponential and logarithmic functions, logarithmic scale representation. Simple models of biological and chemical phenomena governed by first order ordinary differential equations will be also studied.</p>
Teaching methods	Lectures and sessions of practical exercises aimed at applying in

concrete examples the theoretical concepts presented during the lectures.

Reccomended or required readings

Marco Abate
"Matematica e Statistica, le basi per le scienze della vita."
McGraw-Hill.

Assessment methods

There will be a written examination, where the student will be asked to solve some problems on the specific topics treated during the course. If the student is positively evaluated in the written examination, an additional oral colloquium at discretion of the committee can be considered

Note that the final grade of "Calculus and Statistics" course will be the mean of the grades of the two parts. In order to be admitted to the examination on the Statistics' part, it is mandatory that the student has successfully passed the exam of the "Calculus" part

Further information

Sustainable development goals - Agenda 2030

[The goals](#)