Academic subject: Mathema	atics				
Degree Class: L38		<b>Degree Course:</b> Animal Science		Academic Year: 2020/2021	
		Kind of class: mandatory		Year: I	<b>Period:</b> I semester
Time management hours i	n_class study hours out_of_c	di E E E		ECTS: 6 divided into ECTS lessons: 6 ECTS exe/lab/tutor: 0	
Time management, hours, in-class study hours, out-of-class study hourslesson: 48exe/lab/tutor:0in-class study: 0out-of-class study: 102					
Language: Italian	Compulsory Attendance: Yes				
Subject Teacher: Mario Cinone	<b>Tel:</b> +390805443892 <b>e-mail:</b> mario.cinone@uniba.it	Office: Department of Emergency and Organs Transplantation	Office days and hours: Tuesday 2:30-4:30 p.m. Thursday 9:30-11:30 a.m.		
Room     Floor 1       Prerequisites: Eligibility for Mathematics assessment tests (minimum knowledge" assessment).					
the most effective treatment	e health technician, coordinated in the care of animals. This c well as their method of presenta	course will help the student t	o correc	ctly progra	am the data
Expected learning	<b>Knowledge and understanding:</b> The student will learn the methods of analysis and interpretation of data in relation to the main health parameters.				
outcomes (according to Dublin Descriptors)	<ul> <li>Applying knowledge and understanding: The student will demonstrate knowledge of the basic concepts of statistics and the main descriptive and inferential statistical elaborations.</li> <li>Making judgements: The course will make the student autonomous in processing the data that he will collect in carrying out his profession.</li> </ul>				
	<b>Communication:</b> The student will learn the specific language that will allow him to interface with professionals in the sector.				
	<b>Lifelong learning skills:</b> The student will become autonomous in the management of the activities connected with the processing and analysis of the data collected in the field.				
<b>Course program:</b> Statistics in the health professions. Methods of measurement and sampling. Data analysis and presentation. Clinical trials. Epidemiological studies. Descriptive statistics: measurements of central tendency and variability. Probability					

Statistics in the health professions. Methods of measurement and sampling. Data analysis and presentation. Clinical trials. Epidemiological studies. Descriptive statistics: measurements of central tendency and variability. Probability and normal curve. Sampling error. Average sample distribution. Confidence interval. Differences between means. Inferential Statistics: basis of Statistical Tests. Frequency analysis. Measurement of correlation and regression. Comparison of means. Analysis of variance. Fundamentals of Excel and SPSS software.

Teaching methods: Lectures and exercises in statistical analysis.

**Auxiliary teaching:** PC, Excel and SPSS programs.

## Assessment methods:

The assessment of knowledge takes place through an oral test or a multiple-choice quiz which, together with the applied physics test, contributes to the final outcome of the Mathematics and Physics exam.

## **Bibliography:**

Fowler Jim, Jarvis Phil, Chevannes Mel Statistics for the health professions, EDISES editions by Corrado Magnani (2011);

Wayne W. Daniel, Chad L. Cross "Biostatistics" Edises third edition (2019).