General Information	
Academic subject	Statistics
Degree course	Agricultural science and technology
Curriculum	
ECTS credits	3 CFU
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Lucia Mongelli	lucia-mongelli@libero.it	SECS-S/01

ECTS credits details			
Basic teaching activities	Mathematical and Statistical		

Class schedule	
Period	I semester
Year	2016-2017
Type of class	Lecture- workshops

Time management	
Hours	30
In-class study hours	8 hours of Lecture; 14 hours Laboratory and field classes
Out-of-class study hours	45

Academic calendar	
Class begins	2nd october 2017
Class ends	26th january 2018

Syllabus	
Prerequisites/requirements	
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	The course aims to: - provide basic knowledge of the main synthetic measures of series and data distributions and measures of dependence and interdependence between two quantitative and qualitative characters; - provide skills for structuring and carrying out statistical analyzes; - Provide skills related to data processing, data analysis, and presentation by building tables and charts.
Contents	• Introduction: phases of the statistical survey, datacollection. • From data to frequency, distribution, the relative frequency and percentage cumulative frequency • Data graphs: charts for quantitative and qualitative variables (bar charts, histograms, pie charts). Cartesian diagrams • Synthetic measures of a distribution (mean, median, mode, percentiles) • Measures of variability (variance, standard deviation, coefficient of variation, standardization and other indices of variability: range) • Measures of shape: normal distribution, skewness, kurtosis. Analysis of the relationships between • variables (regression analysis and correlation). Coefficient of

	determination • Breakdown of deviance
Course program	
Bibliography	G. GIRONE, R.PACE "Statistica descrittiva", Bari, Cacucci, 2015 P. PERCHINUNNO- V. C. DE NICOLO', "Esercizi di Statistica", CLEUP, 2010
Notes	
Teaching methods	The course topics will be handled with the help of presentations in Power Point.
Assessment methods (indicate at least the type written, oral, other)	The exam consists of a written test based on 15 questions with multiple answers on the topics developed during the theoretical and theoretical lessons in the classroom. There are two exemptions for the attendants (a first exoner concerning basic statistics (average, variability, distribution form) and a second about the relationship between two qualitative or quantitative characters and on the deviance of deviance. The assessment of the student's preparation takes place on the basis of established criteria, as detailed in Annex A of the Teaching Regulations of the Bachelor's Degree. For students who have supported exoneration, the assessment of the profit test is expressed as the average between the vote on the exoneration and the profit test.
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	The candidate must show that he knows the methodologies statistics for: • or the analysis and interpretation of phenomena, starting from the data capture and acquisition (definition of units, characters, mode) • or data processing (construction of tables and graphic representations) • or the statistical interpretation of the phenomena under study (synthesis, variability, form distribution and character relationship). In addition, the candidate must exhibit display skills and presentation and interpretation skills.
Further information	