

7.0 credits

45.0 h + 30.0 h

1q

Teacher(s) :	Legrand Catherine ; André Frédéric ;
Language :	Français
Place of the course	Louvain-la-Neuve
Main themes :	- Introduction to probability ; discrete (binomiale, multinomial and Poisson) and continuous (normal, chi-square, Student and Fisher-Snedecor) distributions. - Descriptive statistics (measures of location and dispersion, empirical distribution, histograms, graphs, dependence measures and their graphical representations) - Introduction to statistical inference: point estimation, confidence intervals, hypothesis tests ; application to the comparison of means and variances. - ANOVA I and ANOVA II models. - Linear models : linear and multiple regression. - Simple, partial and multiple correlations. - Inference methods for discrete data and contingency tables. - Introduction to the planning of experiments.
Aims :	The goal of that course is to introduce students in veterinary science to the rational use of statistical methods for the analysis of data in their discipline. <i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Other infos :	Prerequisites: Basic courses in mathematics (PHY1114 - PHY1115 or equivalent). Evaluation : the evaluation includes a theoretical part and a practical part as well as project. An introduction to a data analysis software will be proposed during the practicals.
Cycle and year of study :	> Certificat universitaire en statistique > Bachelor in Veterinary Medicine
Faculty or entity in charge:	VETE