

3.0 credits	22.5 h + 22.5 h	1q
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Teacher(s) :	Bogaert Patrick ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	Precursory courses: none Supplemental courses: BIR 1203 - Probability & mp; Statistics (I)
Main themes :	Introduction to statistics - Common methods for point estimation - Confidence interval for a mean and a variance - Hypothesis testing and inference - Linear models and regression.
Aims :	Improvement of student's knowledge of random processes, principles and methodology of statistical analysis of experimental data. <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>
Evaluation methods :	Evaluation: Open book written examination (only with the original material!). The examination is composed of exercises to be solved. Its duration is about 3 hours.
Teaching methods :	Support: The supports of the course are a syllabus and a set of slides (see also the section Documents/Transparents on the iCampus website for an electronic copy of the slides if needed). Framing: 1 teacher and 1 assistant
Content :	The course will complete the basic notions already presented during the courses BIR 1203 - Probability & mp; Statistics (I). The student will be able to use the most classical estimation and inference methods for one or two means or variances, as well as for the most classical linear models. If there is enough time available, few exercises will be devoted to the use of a computer software in order to illustrate the various concepts. The Matlab software that will be used is the software used during the course BIR1202 - Applied computer sciences. A special attention will be paid to the articulation with the course BIR1201 - Integrated exercises in mathematics and computer sciences.
Cycle and year of study :	<ul style="list-style-type: none"> > Bachelor in Bioengineering > Bachelor in Computer Science > Bachelor in Information and Communication > Bachelor in Philosophy > Bachelor in Pharmacy > Bachelor in Engineering : Architecture > Bachelor in Psychology and Education: General > Bachelor in Economics and Management > Bachelor in Motor skills : General > Bachelor in Human and Social Sciences > Bachelor in Sociology and Anthropology > Bachelor in Political Sciences: General > Bachelor in Mathematics > Bachelor in Biomedicine > Bachelor in Engineering > Bachelor in Religious Studies > Preparatory year for Master in Statistics: Biostatistics
Faculty or entity in charge:	AGRO