UNIVERSITÉ
LIBRE
DE BRUXELLES

## Probabilités et statistiques

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Lecturers
Jennifer ALONSO GARCIA (Coordinator) and Thomas
VERDEBOUT
Course mnemonic
MATH-F315
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## ECTS credits

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5 credits
Language(s) of instruction
French
Course period
First term
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## Course content

Part 1 : Probability Introduction to the basics of probability measure, random variables, independance, correlation. Part 2 : Statistics Introduction to estimators, confidence intervals and tests of hypothesis, for a proportion, a mean, a variance, the comparison of two proportions or means. Chi-square tests of adjustment, homogeneity and independance. Linear regression. ANOVA with one or two factors.

## Objectives (and/or specific learning outcomes)

Goal : to teach the students the foundations of the statistical methods that they will use to analyse data.

## Pre-requisits and co-requisits

## Pre-requisites courses

MATH-F112 | Mathématiques 1 | 10 crédits
Course having this one as co-requisit INFO-F303 | Réseaux, information et communications |5 crédits

## Teaching method and learning activities

Teaching Method: ex-cathedra courses with lots of examples presented in the domains of the students. Exercices sessions where the students analyse problems.

## Contribution to the teaching profile

The course is taught in French, so please see the french version for details or send an email to tverdebo@ulb.ac.be if you need more details in English.

## References, bibliography and recommended reading

Biblio : lecture notes available for students.
"Eléments de Statistique". C. Dehon, J.-J. Droesbeke , C. Vermandele, édité par I'Université Libre de Bruxelles et Ellipses.

## Other information

## Contact(s)

Thomas Verdebout. Email: tverdebo@ulb.ac.be

## Evaluation method(s)

Other

## Evaluation method(s) (additional information)

Assessment : written exam in January in two parts: one more theoretical, one with problems to solve

## Programmes

Programmes proposing this course at the faculty of Sciences

BA-INFO | Bachelor in Computer science | unit 2

