

Probabilités et statistiques

Lecturers

Jennifer ALONSO GARCIA (Coordinator) and Thomas VERDEBOUT

Course mnemonic

MATH-F315

ECTS credits

5 credits

Language(s) of instruction

French

Course period

First term

Campus

Plaine

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-requisites and co-requisites

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 exampples 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 jennifer.alonso.garcia@ulb.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. Dreesbeke , C. Vermandele, édité par l'Université Libre de Bruxelles et Ellipses.

Other information

Place(s) of teaching

Plaine

Contact(s)

Jennifer Alonso Garcia, jennifer.alonso.garcia@ulb.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

Main language(s) of evaluation

French

Programmes

Programmes proposing this course at the faculty of Sciences

BA-INFO | Bachelor in Computer science | unit 2