



Faculté des sciences économiques, sociales et politiques

ESPO

SPED3245 **Elementary statistics applied to demography and social sciences**

[15h] 2.5 credits

This course is taught in the 1st semester

Teacher(s): Eric Vilquin
Language: french
Level: 3rd cycle course

Aims

To familiarise students with the "statistical approach" and the "probabilist approach"; and to give them practice in handling and interpreting tools of univariate descriptive statistics and the elementary calculation of probabilities.

Main themes

The usefulness of statistics and the role of the statistician; the notion of statistical distribution; graphic representations of a statistical distribution; the parameters of the central tendency and dispersal; the concept of probability; basic theorems for calculating probabilities; and binomial and normal laws.

Correspondences between statistical parameters and demographic indicators.

Content and teaching methods

A lecture course.

There will be as intuitive a presentation as possible of the tools of univariate descriptive statistics; it will be illustrated by case studies based on real data.

An introduction to the calculation of probabilities, and to binomial and normal laws.

Other information (prerequisite, evaluation (assessment methods), course materials recommended readings, ...)

Assessment: This will involve practical work paired with the assessments on Courses DEMO 3419 and DEMO 3480 for students working towards the DEMO 3 DS diploma, and on Course DVLP 3181 for students working towards the DVLP 3 DS diploma.

The course will be given over a period of 3-4 weeks at the beginning of the year.

Support: A syllabus.

Other credits in programs

DEMO3DS	Diplôme d'études spécialisées en populations et sociétés	(2 credits)	Mandatory
DVLP3DS	Diplôme d'études spécialisées en études du développement	(2.5 credits)	Mandatory
DVLP3DS/AD	Diplôme d'études spécialisées en études du développement (Analyse du développement)		Mandatory
DVLP3DS/PR	Diplôme d'études spécialisées en études du développement (Programme et projets de développement)		Mandatory