



LMD5 — Fiche UE du département Biologie-Écologie

Niveau : M1 S8

Intitulé : Statistics (-)

Code : HAB820B

Responsable(s) : Céline DEVAUX
Co-responsable(s) : -
Contact(s) : celine.devaux [at] umontpellier.fr

Moodle : Describing and modelling biological data

Nombre ECTS : 3

Nombre d'heures : CM = 12 — TD = 9 — TP = 0 — Terrain = 0 — Séminaires = 0 — SPS = 0

Statut par parcours : B2I (-), BioGET1 (-), BioGET2 (-), CEPAGE (-), DARWIN (-), EcoSystèmes (-), EGEN (-), MédiACCES (-), MEME (OBL), PAL (), Agreg (-).

Description de l'UE :

starting from scratch for analysing biological data : describing, testing and modelling simple experimental protocols

getting to know fundamental properties of linear models dealing with simple regressions and simple ANOVAs

incorporating into models the essence of biological data : co-linearity, dependence, spatial structure, laws that are not normal....

representing data and results from models

Compétences visées (Savoir, Savoir-Faire, Savoir-Être) :

being able to build an experimental protocol or field observations that match a biological question

being able to build a model to analyse biological data with all their imperfections

being able to understand the protocols and models published in recent papers

being able to build a figure answering the biological questions with statistical tools

Prérequis (compétences et/ou UE) :

fearless about mathematical notations

any experience with R is a bonus

Modalités de contrôle des connaissances : Contrôle continu intégral : 100%



Informations additionnelles : in English