

- Faculté des sciences
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### Design of experiments (3ST2021)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en statistique</b>	<b>Cours: 2 ph</b>	Voir ci-dessous	3

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

#### Période d'enseignement:

- Semestre Printemps

#### Equipe enseignante

Yves Tillé

#### Contenu

The objectives of the course of design of experiments are:

- Explain a variation or a dispersion of a response variable in function of several variables (or factors).
- Identify the most important factors.
- Organize experiments under different conditions that affect the variable of interest.
- Optimize the design of experiment in function of the cost and of some measure of efficiency of the design.
- A design of experiments is not an observational study. The experiments are planned and controlled.

#### Forme de l'évaluation

2 hours written exam at any exams session

#### Documentation

Slides of the course.

#### Pré-requis

Advanced regression method, Multivariate analysis

#### Forme de l'enseignement

- 3 ECTS credits
- Spring Semester
- Elective course for master in statistics (choose 18/24 ECTS)