

Logiciels statistiques

Course title - Intitulé du cours	Logiciels statistiques
Level / Semester - Niveau /semestre	M2 / S1
School - Composante	Ecole d'Economie de Toulouse
Teacher - Enseignant responsable	AMBLARD Frédéric
Other teacher(s) - Autre(s) enseignant(s)	Julien ALIGON
Other teacher(s) - Autre(s) enseignant(s)	
Other teacher(s) - Autre(s) enseignant(s)	
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Other teacher(s) - Autre(s) enseignant(s)	
Lecture Hours - Volume Horaire CM	30
TA Hours - Volume horaire TD	
TP Hours - Volume horaire TP	0
Course Language - Langue du cours	Anglais
TA and/or TP Language - Langue des TD et/ou TP	Anglais

Teaching staff contacts - Coordonnées de l'équipe pédagogique :

email adress: frederic.amblard@ut-capitole.fr (most useful mean to contact me)

office: ME207 (if really needed)

Course's Objectives - Objectifs du cours :

The ecosystem of statistical software is growing rapidly those later years. The two main aims of the course is on the one hand to learn the main concepts of programming (that could be easily reused from one software or one programming language to the other) and on the other hand to acquire some flexibility in the use of the different software and languages and to work on flexible workflows mixing different tools and approaches. The language used during the course is Python. And the libraries introduced will first focus on data analysis (numpy, pandas) and in a second part will focus on more advanced concepts of data analysis (sentimental analysis, web scraping, text mining and opinion mining).

Prerequisites - Pré requis :

None, even if a bit of practice in programming will be useful.

Practical information about the sessions - Modalités pratiques de gestion du cours :

Laptops and tablets are accepted and even encouraged. Students can participate freely asking questions whenever they want either in french or in english. Students with more than ten minutes late won't be accepted in the course.

Grading system - Modalités d'évaluation :

Final exam and midterm exams.

Bibliography/references - Bibliographie/références :

The list of material will be available from the Moodle page and regularly updated.