UCLouvain

lstat2011

2023

Éléments de mathématiques pour la statistique

3.00 credits	15.0 h + 15.0 h	Q1

Teacher(s)	Legrand Catherine ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	Written exam - 2 hours - closed book - A form with formula provided by the teacher and a non-programmable calculator are allowed. The exam consists mainly in exercices but could also include theoretical questions. One (non-mandatory) dispensatory evaluation at the beginning of the semester and one (mandatory) evaluation test are organised at the end of the course. Students with at least 14/20 for the dispensatory evaluation or at least 12/20 for the evaluation test will be allowed to not perfom the exam.
Teaching methods	Formal lectures and exercices sessions onsite.
Content	This course reviews the prerequisites in mathematics for the courses of the certificates and masters in statistics. On particular, fundamental concepts of combinatory analysis, matrix algebra, analysis of single and multiple variables functions (including limits, derivatives and integrals).
Inline resources	Moodle Website - LSTAT2011: Eléments de mathématiques pour la statistique
Bibliography	Wackerly et al. (2002) Mathematical Statistics with Applications Dowling E.T. (1995) Mathématiques pour l'économiste Dodge Y. (2007) Mathématiques de base pour économistes Lecoutre J.P. (1998) Statistique et probabilités
Faculty or entity in charge	LSBA

Programmes containing this learning unit (UE)

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Data Science : Statistic	DATS2M	3		
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	3		
Minor in Statistics, Actuarial Sciences and Data Sciences	MINSTAT	3		
Certificat d'université : Statistique et science des données (15/30 crédits)	STAT2FC	3		