




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	<p>Written exam - 2 hours - closed book - A form with formula provided by the teacher and a non-programmable calculator are allowed.</p> <p>The exam consists mainly in exercices but could also include theoretical questions.</p> <p>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 perform the exam.</p>
Teaching methods	<p>Formal lectures and exercices sessions.</p> <p>In 2020-2021, the formal lectures will be organised as "co-modal" with a live broadcast of the course via Teams. It is however advised for the students for whom it is possible (not in quarantine, no symptoms, ...) to be present for the course.</p>
Content	<p>This course reviews the prerequisites in mathematics for the courses of the certificates and masters in statistics.</p> <p>On particular, fundamental concepts of combinatory analysis, matrix algebra, analysis of single and multiple variables functions (including limits, derivatives and integrals).</p>
Inline resources	Moodle Website - LSTAT2011: Éléments de mathématiques pour la statistique
Bibliography	<p>Wackerly et al. (2002) Mathematical Statistics with Applications</p> <p>Dowling E.T. (1995) Mathématiques pour l'économiste</p> <p>Dodge Y. (2007) Mathématiques de base pour économistes</p> <p>Lecoutre J.P. (1998) Statistique et probabilités</p>
Faculty or entity in charge	LSBA

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