




3 credits

15.0 h + 15.0 h

Q1

Teacher(s)	Legrand Catherine ;
Language :	French
Place of the course	Louvain-la-Neuve
Aims	<i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i>
Evaluation methods	<p><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <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><b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b></p> <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

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