

4.00 credits

15.0 h + 7.5 h

Q1

Teacher(s)	Bugli Céline ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	Concepts and tools equivalent to those taught in the EU LSTAT2020 Basic notions of descriptive statistics, inference and statistical modeling
Main themes	Introduction to the SAS system, SAS tools and SAS/Base programming Creating and manipulating data files in SAS (importing, defining formats, merging tables, manipulating, creating and transforming variables) Preparing data summary tables, producing reports in various formats (text, html) Performing basic statistical analyses: descriptive statistics, frequency tables, simple statistical procedures, basic graphics
Learning outcomes	At the end of this learning unit, the student is able to : A. With regard to the AA framework of the Master's program in statistics, general orientation, this activity contributes to the development and acquisition of the following AAs: • Primary: 5.3 • Secondary: 1.3, 2.2, 3.3 1 With regard to the AA repository of the Master's program in statistics, biostatistics orientation, this activity contributes to the development and acquisition of the following AA: as a priority: 3.5 secondary: 1.3, 2.2, 3.3. B. At the end of this course, students will have learned to program with the BASE module of SAS software, and will be able to apply their skills to large databases.
Evaluation methods	The examination of this course consists of a written computer-based examination.
Teaching methods	In addition to the lectures and computer room exercises, much of the training is done autonomously using the slides, SAS documentation, and e-learning tools provided by SAS.
Content	This course offers a progressive introduction to the use of SAS software for data management, analysis, and modeling. It is intended for students who wish to acquire practical skills in applied statistics and SAS programming.
Inline resources	Various documents (videos, lecture slides, etc.) available via Moodle.
Other infos	A large part of the training is carried out autonomously using materials available on the SAS website (SCYP program). This course is only open to students enrolled and with a good command of passive English.
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	4		
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	5		
Master [120] in Biomedical Engineering	GBIO2M	5		
Master [120] in Statistics: Biostatistics	BSTA2M	4		
Additional module in computer science	APPSINF	4		
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	5		
Master [120] in Actuarial Science	ACTU2M	4		
Master [120] in Population and Development Studies	SPED2M	5		
Master [120] in Statistics: General	STAT2M	4		
Approfondissement en statistique et sciences des données	APPSTAT	4		
Master [120] in Mathematical Engineering	MAP2M	4		
Certificat d'université : Statistique et science des données (15/30 crédits)	STAT2FC	4		