

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.









5 credits

15.0 h + 10.0 h

Q1

Teacher(s)	Bugli Céline ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	- Introduction to the SAS system and to SAS/Base programming. - Creation and manipulation of datasets with SAS: importing and exporting datasets, format definition, table merging, variable manipulation, creation and transformation. - Preparation of summary tables, preparation of reports in different formats (txt, html...) - Presentation of the " SAS base programming " certificate.
Aims	<p>1 At the end of this course, the student will master the programming in SAS/Base and will be able to apply its skills on big and complicated data sets.</p> <p>----</p> <p><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></p>
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. The examination of this course consists of passing the SAS Base Programming Certification (QCM).
Teaching methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. In addition to the lectures and computer room exercises, much of the training is done autonomously using the syllabus, SAS documentation, and e-learning tools provided by SAS.
Content	<p>SAS Programming 1: Essentials</p> <ul style="list-style-type: none"> • Use SAS Studio and SAS Enterprise Guide to write and submit SAS programs. • Access SAS, Microsoft Excel, and text data. • Explore and validate data. • Prepare data by subsetting rows and computing new columns. • Analyze and report on data. • Export data and results to Excel, PDF, and other formats. • Use SQL in SAS to query and join tables. <p>SAS Programming 2: Data Manipulation Techniques</p> <ul style="list-style-type: none"> • understand and control DATA step processing • create an accumulating column and process data in groups • manipulate data with functions • convert column type • create custom formats • concatenate and merge tables • process repetitive code • restructure tables.
Inline resources	<p>https://moodleucl.uclouvain.be/course/view.php?id=8018</p> <p>This course is open to all students from Belgian universities after enrolment in the academic programme (Master's or Doctoral students). However, as the number of places is limited, enrolment for students other than those in the Master's degree in statistics, general orientation or biostatistics can only be made with the agreement of the course holder. This course is also available to students of the UCL University Certificate in Statistics under certain conditions.</p> <p>The course content is only available after official registration.</p>
Bibliography	<p>Syllabus du cours en vente au début du cours.</p> <p>Accès à la documentation SAS.</p>

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 in a master's degree in statistics 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	Aims
Approfondissement en statistique et sciences des données	LSTAT100P	5		
Advanced Master in Quantitative Methods in the Social Sciences	LMQS2MC	5		
Master [120] in Population and Development Studies	SPED2M	5		
Master [120] in Data Science : Statistic	DATS2M	5		
Master [120] in Biomedical Engineering	GBIO2M	5		
Master [120] in Mathematical Engineering	MAP2M	5		
Master [120] in Statistic: Biostatistics	BSTA2M	5		
Certificat d'université : Statistique et sciences des données (15/30 crédits)	STAT2FC	5		
Master [120] in Biochemistry and Molecular and Cell Biology	BBMC2M	5		
Master [120] in Actuarial Science	ACTU2M	5		
Master [120] in Statistic: General	STAT2M	5		