



UCLouvain
 Study
 programme
 2019 - 2020

Approfondissement en statistique et sciences des données

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Introduction

Introduction

Teaching profile

Learning outcomes

Detailed programme

PROGRAMME BY SUBJECT

- Mandatory
 △ Courses not taught during 2019-2020
 ⊕ Periodic courses taught during 2019-2020
- ✘ Optional
 ⊖ Periodic courses not taught during 2019-2020
 ■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

2 3

o Contenu:

o Module 1 (Statistique)

L'étudiant choisit maximum une UE parmi LSTAT2120 et LBIRA2101. Les UE LSTAT2360 et LSTAT2370 sont accessibles uniquement pour les étudiants du Bachelier en sciences informatiques.

✘ LMAFY1101	Data exploration and introduction to statistical inference	Anouar El Ghouch	30h+30h	5 Credits	2q	X	X
✘ LSTAT2020	Statistical softwares and basic statistical programming	Céline Bugli	15h+15h	4 Credits	1q	X	X
✘ LSTAT2110	Data Analysis	Johan Segers	30h+7.5h	5 Credits	1q	X	X
✘ LSTAT2120	Linear models	Christian Hafner	30h+7.5h	5 Credits	1q	X	X
✘ LBIRA2101	Biometry : analysis of the variance	Xavier Draye (coord.) Bernadette Govaerts	30h+15h	4 Credits	1q	X	X
✘ LSTAT2130	Introduction to Bayesian statistics	Philippe Lambert	15h+5h	4 Credits	2q	X	X
✘ LSTAT2200	Survey and Sampling	Marie-Paule Kestemont	15h+5h	4 Credits	2q	X	X
✘ LSTAT2310	Statistical quality control.	Bernard Francq (compensates Bernadette Govaerts) Bernadette Govaerts	15h+5h	4 Credits	1q	X	X
✘ LSTAT2320	Design of experiment.	Patrick Bogaert Bernadette Govaerts	22.5h +7.5h	5 Credits	2q	X	X
✘ LSTAT2330	Statistics in clinical trials.	Catherine Legrand Annie Robert	22.5h +7.5h	5 Credits	2q	X	X
✘ LSTAT2360	Seminar in data management: basic	Céline Bugli	15h+10h	5 Credits	1q	X	X
✘ LSTAT2370	Data Management II : SAS ADVANCED PROGRAMMING	Christophe Kabacinski	15h+10h	6 Credits	2q	X	X

o Moduel 2 (Informatique)

L'étudiant choisit maximum une UE parmi LINFO1101 et LINGE1225.
Max=10 CREDITS parmi

✘ LEPL1104	Méthodes numériques	Vincent Legat	30h+30h	5 Credits	2q	X	X
✘ LINFO1101	Introduction à la programmation	Kim Mens Siegfried Nijssen Charles Pecheur	30h+30h	5 Credits	1q	X	X
✘ LINFO1225	Conception orientée objet et gestion de données	Kim Mens	30h+30h	5 Credits	2q	X	X
✘ LINGE1225	Programming in Economics and Management	Marco Saerens	22.5h +22.5h	4 Credits	1q	X	X
✘ LINMA1702	Optimization models and methods I	François Glineur	30h +22.5h	5 Credits	2q	X	X
✘ LSINF1121	Algorithmics and data structures	Pierre Schaus	30h+30h	5 Credits	1q	X	X

COURSE PREREQUISITES

A document entitled [en-prerequis-2019-app-lstat100p.pdf](#) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

These activities are identified in the study programme: their title is followed by a yellow square.

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult [regulation of studies and exams](#).

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "*In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?*"

The document is available by clicking [this link](#) after being authenticated with your UCLouvain account.

Information

Liste des bacheliers proposant cette mineure

- > Bachelor in Mathematics [en-prog-2019-math1ba]
- > Bachelor in Physics [en-prog-2019-phys1ba]

Admission

Evaluation

The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Possible trainings at the end of the programme

Les étudiants ayant réalisés cette mineure d'approfondissement en statistique et sciences des données ont un accès direct au Master en Statistique. Les cours de Master suivi dans cette mineure ne pourront pas être valorisés lors de la réalisation du Master en Statistique, et seront donc remplacé par d'autres cours plus approfondi permettant ainsi aux étudiants accédant au Master en Statistique après cette mineure d'élargir et approfondir leurs connaissances dans ce domaine.

De plus les étudiants ayant réalisés cette mineure et ayant acquis, soit via cette mineure soit via leur cours à option, les prérequis nécessaires en informatiques auront un accès direct pour le Master en Data Sciences, orientation statistique.

Contacts

Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SST/SC/LSBA

[\(LSBA\)](#)

Faculty of Science [\(SC\)](#)

Sciences and Technology [\(SST\)](#)

LSBA

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<https://uclouvain.be/fr/facultes/sc/lsba>

Web site

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Useful Contact(s)

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