

 The version you're consulting is not definitive. This programme still may change. The final version will be published on 1th June.

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MINSTAT - Introduction

Introduction

MINSTAT - Teaching profile

Learning outcomes

Aims of the course in terms of skills: the minor aims to allow the student to acquire basic skills in applied statistics which are of use in his/her specialist subject or help him/her prepare for a Master's in Statistics.

Programme

DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2025-2026
- Not offered in 2025-2026 but offered the following year
- ⊕ Offered in 2025-2026 but not the following year
- △ ⊕ Not offered in 2025-2026 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

30 crédits

Year

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o Content:

o Module 1 (cours de base en mathématique)

⊗ Bloc 1

● LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	(FR) [q1] [30h+20h] [4 Credits] 🌐	X	X
● LMAT1102	Mathematics 2	Augusto Ponce	(FR) [q2] [30h+30h] [4 Credits] 🌐	X	X

⊗ Bloc 2

● LECGE1112	Mathematics in economy and management		(FR) [q1] [45h+30h] [6 Credits] 🌐	X	X
● LECGE1230	Mathematics in Economics and Management II		(FR) [q1] [45h+30h] [6 Credits] 🌐	X	X

⊗ Bloc 3

● LINGE1114	Introduction to mathematical modelling : analysis [M]		(FR) [q1] [30h+30h] [5 Credits] 🌐	X	X
● LINGE1121	Introduction to mathematical modelling : algebra [M]		(FR) [q1] [30h+30h] [5 Credits] 🌐	X	X

o Module 2 (cours de base en statistique/probabilité)

Au sein de chaque bloc, les cours doivent être suivis dans l'ordre indiqué.

⊗ Choix 2

● LSTAT2011	Éléments de mathématiques pour la statistique		(FR) [q1] [15h+15h] [3 Credits] 🌐	X	X
● LSTAT2014	Elements of probability and mathematical statistics		(FR) [q1] [22.5h+22.5h] [5 Credits] 🌐	X	X

⊗ Bloc 2

● LBIR1212	Probabilities and statistics (I)	Patrick Bogaert	(FR) [q1] [30h+15h] [4 Credits] 🌐	X	X
● LBIR1315	Probability and statistics II	Patrick Bogaert	(FR) [q1] [22.5h+22.5h] [3 Credits] 🌐	X	X

⊗ Bloc 3

● LINGE1113	Data analysis : Probability [M]		(FR) [q2] [30h+15h] [4 Credits] 🌐	X	X
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Year

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○ LINGE1214	Further Statistics [M]	Christian Hafner	FR [q1] [30h+15h] [4 Credits] 🌐	x	x
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⊗ Module 3 (cours de base en informatique)

Parmi les cours qu'il choisit, l'étudiant sélectionne maximum un cours parmi LINFO1101 et LINGE1225. L'étudiant qui suit plusieurs cours dans ce module suit obligatoirement les cours selon la séquence suivante : (LINFO1101 ou LINGE1225) puis LEPL1402 puis finalement LEPL1509.

⊗ LINFO1101	Introduction to programming	Kim Mens Siegfried Nijssen Charles Pecheur	FR [q1] [30h+30h] [5 Credits] 🌐	x	x
⊗ LINGE1225	Programming in Economics and Management [M]	Marco Saerens	FR [q1] [30h+22.5h] [4 Credits] 🌐	x	x
⊗ LEPL1402	Informatics 2		FR [q1] [30h+30h] [5 Credits] 🌐	x	x
⊗ LEPL1509	Project 4 (in informatics) LEPL1402 doit être suivi au plus tard la même année que LEPL1509.		FR [q2] [30h+22.5h] [5 Credits] 🌐	x	x

⊗ Module 4 (Statistique)

⊗ au choix

maximum un cours parmi

⊗ LSTAT2120	Linear models	Christian Hafner	FR [q1] [30h+7.5h] [5 Credits] 🌐 > French-friendly	x	x
⊗ LBIRA2110A	Statistical analysis of multivariate data - Biometrics 1		FR [q1] [22.5h+15h] [3 Credits] 🌐 > English-friendly	x	x

⊗ au choix

maximum un cours parmi

⊗ LSTAT2110	Data Analysis		FR [q1] [30h+7.5h] [5 Credits] 🌐	x	x
⊗ LINGE1222	Multivariate Statistical Analysis [M]		FR [q2] [30h+15h] [4 Credits] 🌐	x	x

⊗ au choix

maximum un cours parmi

⊗ LMAFY1101	Data exploration and introduction to statistical inference L'étudiant qui choisit le cours LMAFY1101 le suit impérativement en début de mineure.	Anouar El Ghouch	FR [q2] [30h+30h] [5 Credits] 🌐	x	
⊗ LSTAT2020	Statistical softwares and basic statistical programming		FR [q1] [15h+15h] [4 Credits] 🌐	x	x

⊗ au choix

⊗ LDATS2030	Statistique et data sciences avec R: Programmation avancée		FR [q2] [15h+15h] [4 Credits] 🌐	x	x
⊗ LSTAT2200	Survey and Sampling		FR [q2] [15h+5h] [4 Credits] 🌐	x	x
⊗ LSTAT2310	Statistical quality control.		FR [q1] [15h+5h] [4 Credits] 🌐 > English-friendly	x	x
⊗ LSTAT2320	Design of experiment. [M]		FR [q2] [30h+10h] [5 Credits] 🌐 > English-friendly	x	x
⊗ LSTAT2330	Statistics in clinical trials.		FR [q2] [22.5h+7.5h] [5 Credits] 🌐	x	x

⊗ Module 5 (Cours de biologie)

L'étudiant choisit maximum un cours parmi

⊗ LBIO1110	Life : diversity and evolution		FR [q1] [30h+10h] [4 Credits] 🌐	x	x
⊗ LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	FR [q1] [30h+20h] [5 Credits] 🌐	x	x
⊗ LFSM1104A	Biologie cellulaire et éléments d'histologie (partim A FSA)		FR [q2] [45h] [4 Credits] 🌐	x	x

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

MINSTAT - Information

Bachelors offering this minor

- > Bachelor in Biomedicine [en-prog-2025-sbim1ba]
- > Bachelor in Computer Science [en-prog-2025-sinf1ba]
- > Bachelor in Chemistry [en-prog-2025-chim1ba]
- > Bachelor in Political Sciences: General [en-prog-2025-spol1ba]
- > Bachelor in Sociology and Anthropology [en-prog-2025-soca1ba]
- > Bachelor in Human and Social Sciences [en-prog-2025-huso1ba]
- > Bachelor in Biology [en-prog-2025-biol1ba]
- > Bachelor in Geography : General [Réforme 2024-25] [en-prog-2025-geog1ba]
- > Bachelor in Pharmacy [en-prog-2025-farm1ba]
- > Bachelor in Engineering [en-prog-2025-fsa1ba]
- > Bachelor in Economics and Management [en-prog-2025-ecge1ba]

Access Requirements

The minor in statistics is open to students from UCLouvain baccalaureate for whom statistics appears to be an attractive additional tool, and who already have sufficient basic training in mathematics and statistics. The real content of his/her program will depend on his/her goals and basic skills in statistics, mathematics and IT.

Students with little or no training in mathematics and statistics in their bachelor's program have access to the Minor in Statistics and Data Science (MINDATA), which offers an introduction to the practice of statistics.

Students who have direct access to the master in Statistics and master in Data Science are encouraged to choose the advanced minor (APPSTAT).

An adviser from the Institut de statistique will be available to help the student decide in which group s/he belongs and to help him/her choose his/her electives to match his/her aims.

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

Majors-minors giving direct access to a master's course(s) :

Students who pass the minor in statistics have fulfilled the necessary conditions to enroll on a specialized master's in statistics.

Majors-minors giving access to the master's subject to the student meeting an additional requirement(s):

Contacts

Curriculum Management

Entity

Structure entity

SST/SC/LSBA

Denomination (LSBA)
Faculty Faculty of Science (SC)
Sector Sciences and Technology (SST)
Acronym LSBA
Postal address Voie du Roman Pays 20 - bte L1.04.01
1348 Louvain-la-Neuve
Tel: +32 (0) 10 47 43 14 - Fax: +32 (0) 10 47 30 32
<https://uclouvain.be/fr/facultes/sc/lsba>

Website
Academic supervisor: [Laura Symul](#)
Useful Contact(s)
• Secretary of The Louvain School of Statistics, Biostatistics and Actuarial Sciences: [Sophie Malali](#)

