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Introduction

Introduction

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.

Detailed programme

PROGRAMME BY SUBJECT

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Mandatory △ Courses not taught during 2014-2015 ⊕ Periodic courses taught during 2014-2015 | <ul style="list-style-type: none"> ⊗ Optional ⊖ Periodic courses not taught during 2014-2015 ‡ Two years course |
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Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

2 3

○ Cours de mathématique de base

L'étudiant du groupe 1 choisit un module parmi:

⊗ Module 1

○ LECGE1112	Mathematics in economy and management	Pieter Klaessens, Pascal Lambrechts	45h+30h	6 Credits	1q	x	x
○ LECGE1230	Mathematics in Economics and Management II	Julio Davila Muro	45h+30h	6 Credits	1q	x	x

⊗ Module 2

○ LMAT1111A	General Mathematics	Pedro Dos Santos Santana Forte Vaz, Marino Gran, Emmanuel Hanert, Augusto Ponce, Jean Van Schaftingen	45h+30h	11 Credits	1q	x	x
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⊗ Module 3

○ LINGE1114	Mathematics I: analysis	Cécile Coyette	30h+30h	5 Credits	1q	x	x
○ LINGE1121	Mathematics II: algebra and matrix calculus	Tom Claeys	30h+30h	5 Credits	2q	x	x

○ Cours en probabilités et statistique de base

L'étudiant des groupes 1 et 2 choisit un module parmi:

⊗ Module 1

○ LECGE1114	Statistics in Economics and Management I	Marie-Paule Kestemont	30h+30h	5 Credits	2q	x	x
○ LECGE1224	Economics and Management Statistics	Jan Johannes, Catherine Timmermans (compensates Jan Johannes)	30h+15h	5 Credits	2q	x	x

⊗ Module 2

○ LINGE1113	Probability	Johan Segers	30h+15h	4 Credits	2q	x	x
○ LINGE1214	Further Statistics	Christian Hafner	30h+15h	4 Credits	1q	x	x

⊗ Module 3

○ LBIR1203	Probabilities and statistics (I)	Patrick Bogaert	30h+15h	4 Credits	1q	x	x
○ LBIR1304	Probability and statistics (II)	Patrick Bogaert	22.5h +22.5h	3 Credits	1q	x	x

⊗ Cours de base en informatique

⊗ LBIR1204	Informatique et mathématiques appliquées	Patrick Bogaert, Emmanuel Hanert (coord.), Marnik Vanclooster	22.5h +22.5h	4 Credits	2q	x	x
⊗ LECGE1215	Information Technology in Economics and Management	Manuel Kolp	30h+20h	4 Credits	1q	x	x

○ Cours spécialisés en statistique

L'étudiant du groupe 1 complète pour 30C. L'étudiant du groupe 2 choisit 10C et celui du groupe 3, 15C.

⊗ LINGE1221	Econometrics	Christian Hafner	30h+15h	5 Credits	2q	x	x
⊗ LINGE1222	Multivariate Statistical Analysis	Johan Segers	30h+15h	4 Credits	2q	x	x
⊗ LMAT1371	Probability	Jan Johannes, Johan Segers, Johan Segers (compensates Jan Johannes)	30h +22.5h	5 Credits	2q	x	x
⊗ LSTAT2020A	Calcul statistique sur ordinateur	Céline Bugli	6h+6h	2 Credits	1q	x	x
⊗ LSTAT2020B	Calcul statistique sur ordinateur II	Céline Bugli	14h+14h	4 Credits	1q	x	x
⊗ LSTAT2040	Statistical analysis	Anouar El Ghouch, Ingrid Van Keilegom	30h+15h	5 Credits	2q	x	x
⊗ LSTAT2130	Introduction to Bayesian statistics.	Philippe Lambert	15h+5h	4 Credits	2q	x	x
⊗ LSTAT2140	Non parametric statistics	Cédric Heuchenne (compensates Ingrid Van Keilegom), Ingrid Van Keilegom	15h+5h	4 Credits	1q	x	x

⊗ Cours utiles dans le domaine de la statistique

L'étudiant des groupes 2 et 3 complète pour avoir 30 crédits.

⊗ LFSAB1104	Numerical methods	Vincent Legat	30h+30h	5 Credits	1q	x	x
⊗ LINMA1702	Applied mathematics : Optimization I	Vincent Blondel, François Glineur (compensates Vincent Blondel), François Glineur (coord.)	30h +22.5h	5 Credits	2q	x	x
⊗ LINMA1731	Stochastic processes : Estimation and prediction	Pierre-Antoine Absil, Luc Vandendorpe (coord.)	30h+30h	5 Credits	2q	x	x
⊗ LMAT1322	Measure theory	Paolo Roselli	22.5h +15h	3 Credits	1q	x	x

Information

Liste des bacheliers proposant cette mineure

- > Bachelor in Engineering [en-prog-2014-fsa1ba]
- > Bachelor in Philosophy [en-prog-2014-filo1ba]
- > Bachelor in Sociology and Anthropology [en-prog-2014-soca1ba]
- > Bachelor in Information and Communication [en-prog-2014-comu1ba]
- > Bachelor in religious studies [en-prog-2014-reli1ba]
- > Bachelor in Motor skills : General [en-prog-2014-edph1ba]
- > Bachelor in Biomedicine [en-prog-2014-sbim1ba]
- > Bachelor in Pharmacy [en-prog-2014-farm1ba]
- > Bachelor in Computer Science [en-prog-2014-sinf1ba]
- > Bachelor in Economics and Management [en-prog-2014-ecge1ba]
- > Bachelor in Human and Social Sciences [en-prog-2014-huso1ba]
- > Bachelor in Mathematics [en-prog-2014-math1ba]
- > Bachelor in Political Sciences: General [en-prog-2014-spol1ba]

Admission

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

We divide the students into three groups based on the role mathematics and statistics play in their university course:

- Group 1 : students whose baccalaureate program does not feature any mathematics training and who are not taking a sufficiently methodological statistics course.
- Group 2 : students with sound mathematics training but who have not covered much statistics in their baccalaureate program.
- Group 3 : students who already have a solid basic training in mathematics and statistics in their baccalaureate.

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.

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

Entite de la structure LSBA

Acronyme	LSBA
Dénomination	Louvain School of Statistics, Biostatistics and Actuarial Sciences
Adresse	Voie du Roman Pays, 20 bte L1.04.01 1348 Louvain-la-Neuve

Tél 010/474314 - Fax 010/473032

Site web <https://www.uclouvain.be/lbsa>

Secteur Secteur des sciences et technologies (SST)

Faculté Faculté des sciences (SC)

Commission de programme Louvain School of Statistics, Biostatistics and Actuarial Sciences (LSBA)

Jury

Usefull Contacts

Secrétaire de l'Ecole de statistique, biostatistique et sciences actuarielles : **Sophie Malali**

Infos
