

**BSTA1PM**

2013 - 2014

## Preparatory year for Master in Statistics: Biostatistics

**At Louvain-la-Neuve - 1 year - Day schedule - In french**Dissertation/Graduation Project : **NO** - Internship : **NO**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **YES**Main study domain : **Sciences**Organized by: **Faculté des sciences (SC)**Programme code: **bst1pm****Table of contents**

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## BSTA1PM - Introduction

## BSTA1PM - Admission

**For the specific conditions of this program : refer to the French version**

(Decree of March 31<sup>st</sup> 2004 defining higher education, favoring its integration in the European framework of higher education and refinancing universities)

The admission requirements must be met prior to enrolment in the university.

### General conditions

#### Access to the preparatory year on the basis of a bridging programme:

- Access to the preparatory year for students who have a [non-university "short-type" higher education degree](#)
- Access to the preparatory year for students who have a [non-university "long-type" higher education degree](#)

**Upon completion of the Master's admission procedure** , students may be required to take extra courses representing a maximum of 60 additional credits. Where the extra workload exceeds 15 credits, this training is considered to be a preparatory year of study.

- **Access to the preparatory year on the basis of [accreditation of prior learning and skills acquired through personal or professional experience](#)** :

Article 53 of the Decree of 30 March 2004 stipulates that: *"Notwithstanding article 51, without prejudice to article 60, and in accordance with a decision by the academic authorities, for the purpose of granting access to Master's studies, the competent Examination Board may accredit prior learning and skills acquired by students through their personal or professional experience. This useful experience must correspond to at least five years of activities, excluding years of higher education study that were not passed. At the end of an assessment procedure organized by the academic authorities, the Examination Board will decide whether a student has sufficient knowledge and skills to successfully pursue Master's studies."*

- **Access to the preparatory year on the basis of accreditation of 180 ECTS credits by the Admissions Board (personalized admission based on application)** for students who have a degree from a Belgian university or qualifications obtained abroad (which do not give access to this particular year on the basis of the abovementioned general conditions).

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In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail

## BSTA1PM - Information

### Learning outcomes

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L'année préparatoire a pour objectif de permettre à l'étudiant d'acquérir des compétences de base en statistique méthodologique et appliquée pour le préparer au Master en statistiques, orientation biostatistique, à finalité spécialisée.

### Evaluation

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Evaluation continue : exercices et travaux personnels.

Examens écrits et oraux.

De plus amples informations peuvent être obtenues dans les cahiers de charge des cours du programme.

### Possible trainings at the end of the programme

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L'année d'études préparatoires au Master en statistiques, orientation biostatistique n'est pas diplômante mais donne accès au Master en statistiques, orientation biostatistique.

## BSTA1PM - Contacts

### Curriculum Managment

Entite de la structure LSBA

Acronyme	<b>LSBA</b>
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	<a href="https://www.uclouvain.be/lsba">https://www.uclouvain.be/lsba</a>
Secteur	Secteur des sciences et technologies ( <b>SST</b> )
Faculté	Faculté des sciences ( <b>SC</b> )
Commission de programme	Louvain School of Statistics, Biostatistics and Actuarial Sciences ( <b>LSBA</b> )

**Academic Supervisor :** [Catherine Legrand](#)

### Jury

Président : **Christian Hafner**

Secrétaire : **Anouar El Ghouch**

### Usefull Contacts

Secrétariat des étudiants : **Sophie Malali**

## BSTA1PM - Detailed programme

### Programme by subject

Ce programme vise à préparer un étudiant diplômé des Hautes Ecoles à entreprendre les études du Master en statistiques, orientation biostatistique, à finalité spécialisée. Il comporte un minimum de 35 crédits. Outre les cours de base en méthodologie de la statistique, il propose d'approfondir les connaissances de l'étudiant en mathématique, en informatique et en biologie utiles au biostatisticien. Un cours d'anglais complète cette formation. Les activités proposées comprennent des cours théoriques, des séances d'exercices et des travaux pratiques.

#### o Cours de mathématiques (4 credits)

○ WSBIM1001	MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES	Julien Federinov, André Nauts, Annie Robert	45h+20h	4 Credits	2q
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#### o Cours d'informatique (4 credits)

○ LBIR1204	Informatique et mathématiques appliquées	Patrick Bogaert, Emmanuel Hanert (coord.), Marnik Vanclooster	22.5h+22.5h	4 Credits	2q
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#### o Cours de la spécialité (13 credits)

○ LFSAB1221	Introduction to life science	Philippe Lefèvre (coord.), Gaëtane Leloup	30h	3 Credits	2q Δ
○ WMED1212	Epidémiologie clinique : approche des maladies	Benoît Boland	15h	2 Credits	2q
○ WMD1102	Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)	Eduardo Cortina Gil, Bernard Piroux (coord.)	60h+21h	8 Credits	1q

#### o Cours de probabilités et statistique

L'étudiant choisit un des deux modules suivants :

##### ⌘ Module 1

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

##### ⌘ Module 2

○ WESP1010	Introduction à la statistique descriptive et aux probabilités	William D'Hoore (coord.), Niko Speybroeck	15h+15h	4 Credits	
○ WESP2118	Statistique en sciences de la santé	William D'Hoore, Annie Robert, Niko Speybroeck	32h+20h	4 Credits	1q
○ LINGE1222	Multivariate Statistical Analysis	Johan Segers	30h+15h	4 Credits	2q

**o Cours d'anglais (3 credits)**

○ LANGL1330	English intermediate level - 1st part	Timothy Byrne, Estelle Dagneaux, Aurélié Deneumoustier, Fanny Desterbecq, Marie Duetz, Dominique François, Céline Gouverneur, Marielle Henriet, Carlo Lefevre, Sandrine Mulkers (coord.), Katherine Opello, Charlotte Peters, Marc Piwnik (coord.), Colleen Starrs	30h	3 Credits	
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