



BSTA2M

2024 - 2025







of 5 credits. These extra-curricular courses must be relevant, of a sufficient level and adapted to the profile of the program and of the student.

The student prepares his program in consultation with a study advisor, then submits it to the jury for approval.

For a typical program, this master will count, regardless of the options and / or elective courses selected, a minimum of 120 credits spread over two annual blocks corresponding to a minimum of 60 credits each.

## BSTA2M Programme

### Detailed programme by subject

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#### CORE COURSES

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- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊙ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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, ...)

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

Year





## PROFESSIONAL FOCUS [30.0]

La finalité spécialisée comprend le mémoire, l'UE de base en statistique du biostatisticien et une UE en statistique appliquée.

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
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Year

1 2

### o Content:

#### o Cours obligatoires de la finalité

○ LSTAT2828	<a href="#">memory in biostatistics</a>		(FR) [q1 or q2] [] [20 Credits] 🌐		x
○ LSTAT2330	<a href="#">Statistics in clinical trials.</a>	Catherine Legrand Annie Robert	(FR) [q2] [22.5h+7.5h] [5 Credits] 🌐	x	

#### o Cours au choix de la finalité

L'étudiant choisit obligatoirement une unité d'enseignement parmi les deux suivantes. L'étudiant qui désire inclure les deux unités d'enseignement à son programme ajoute l'autre dans le tronc commun.

⊗ LSTAT2930	<a href="#">Training course or work of application in biostatistics</a> ■		(FR) [q1 or q2] [] [5 Credits] 🌐	x	x
⊗ LSTAT2380	<a href="#">Statistical consulting</a>	Christian Ritter	(EN) [q1+q2] [30h] [5 Credits] 🌐 > French-friendly		x

The student completes his program by choosing teaching units in the options and respecting the instructions of each option.  
 If the student chooses 15 or more credits in an option (including compulsory courses), this option will appear on the appendix of his diploma.

- > [Biostatistique clinique et épidémiologie](#) [ en-prog-2024-bsta2m-bbsta220o ]
- > [Biométrie, technométrie et bioinformatique](#) [ en-prog-2024-bsta2m-lbsta210o ]

## BIostatistique Clinique et Épidémiologie

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊙ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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, ...)

The student will validate this option if he/she obtains between 15 and 30 credits among the following courses.

Year  
1 2

### Content:

#### Choisir au moins un cours parmi

⊗ WFSP2218	<a href="#">Longitudinal analysis: linear, logistic and Poisson regression</a>	Ann	FR [q1] [20h+20h] [4 Credits] 🌐	X	X
⊗ WFSP2219	<a href="#">Systematic literature review, realist evaluation and meta-analysis</a>	Annie K Clo	FR [q2] [20h+10h] [3 Credits] 🌐	X	X

#### Cours au choix

⊗ WESP2234	<a href="#">Clinical decision</a>	Andr Ann	FR [q1] [30h] [3 Credits] 🌐	X	X
⊗ WFSP2201	<a href="#">Advanced methods in public health</a>		EN [q2] [15h] [3 Credits] 🌐	X	X
⊗ WFSP2202	<a href="#">Health survey methods</a>		EN [q1] [20h] [5 Credits] 🌐	X	X
⊗ WFARM2196	<a href="#">Rational therapeutic choices (Introduction to evidence-based medicine and pharmacoecconomy)</a>	Nathalie Séverine Hen Anne Spinewine (coo	FR [q1] [30h+10h] [4 Credits] 🌐	X	X
⊗ WFARM2513	<a href="#">Pharmacocinétique approfondie</a>	Laure Elens			



## ***BIOMÉTRIE, TECHNOMÉTRIE ET BIOINFORMATIQUE***

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## BSTA2M - Information

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<a href="#">Bachelor in Computer Science (Louvain-la-Neuve)</a> <a href="#">Bachelor in Computer Science (Charleroi)</a> <a href="#">Bachelor in Mathematics</a> <a href="#">Bachelor in Physics</a>		
Tous les autres bacheliers	If the student did not succeed <a href="#">Minor in Statistics, Actuarial Sciences and Data Sciences</a> and LFSAB1221, supplementary classes: - <a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> or <a href="#">LIEPR1004A</a> - and/or <a href="#">LSTAT2011</a> , <a href="#">LSTAT2012</a> , <a href="#">LSTAT2013</a>	<a href="#">Access based on application</a>

#### Others Bachelors of the French speaking Community of Belgium

Bachelier en sciences de l'ingénieur, orientation bioingénieur		Direct access
Bachelier en sciences biologiques Bachelier en sciences biomédicales Bachelier en sciences de l'ingénieur, orientation bioingénieur	Supplementary classes: <a href="#">LSTAT2011</a> , <a href="#">LSTAT2012</a> , <a href="#">LSTAT2013</a>	<a href="#">Access based on application</a>
Bachelier en ingénieur de gestion Bachelier en sciences économiques et de gestion Bachelier en sciences de l'ingénieur, orientation ingénieur civil Bachelier en sciences informatiques Bachelier en sciences mathématiques Bachelier en sciences physiques	Supplementary classes: <a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> ou <a href="#">LIEPR1004A</a>	<a href="#">Access based on application</a>
Tout autre bachelier	Supplementary classes: - <a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> or <a href="#">LIEPR1004A</a> - and/or <a href="#">LSTAT2011</a> , <a href="#">LSTAT2012</a> , <a href="#">LSTAT2013</a>	<a href="#">Access based on application</a>

#### Bachelors of the Dutch speaking Community of Belgium

Bachelier en sciences de l'ingénieur, orientation bioingénieur		Direct access
Bachelier en sciences biologiques Bachelier en sciences biomédicales Bachelier en sciences de l'ingénieur, orientation bioingénieur	Supplementary classes: <a href="#">LSTAT2011</a> , <a href="#">LSTAT2012</a> , <a href="#">LSTAT2013</a>	<a href="#">Access based on application</a>
Bachelier en ingénieur de gestion Bachelier en sciences économiques et de gestion Bachelier en sciences de l'ingénieur, orientation ingénieur civil Bachelier en sciences informatiques Bachelier en sciences mathématiques Bachelier en sciences physiques	Supplementary classes: <a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> ou <a href="#">LIEPR1004A</a>	<a href="#">Access based on application</a>

Tous les autres bacheliers	Supplementary classes: - LBIO1110, LBIO1111 or LIEPR1004A - and/or LSTAT2011, LSTAT2012, LSTAT2013	<a href="#">Access based on application</a>
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**Foreign Bachelors**

Tous les bacheliers	Supplementary classes: - LBIO1110, LBIO1111 or LIEPR1004A - and/or LSTAT2011, LSTAT2012, LSTAT2013	<a href="#">Access based on application</a>
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Licenciés belges de la communauté française: Bioingénieur Ingénieur civil (sauf ingénieur civil architecte) sciences mathématiques	<a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> or <a href="#">LIEPR1004A</a> is supplementary classes for students who have not taken an equivalent course.	Direct access	Subject to the acceptance of the jury, a student may be exempted from a maximum of 60 activity credits and possibly complete the master's degree in Biostatistics in a single year.
Ingénieur de gestion Sciences biologiques Sciences biomédicales Bioingénieur Ingénieur civil (sauf Ingénieur civil architecte) Sciences informatiques Sciences physiques Sciences mathématiques	<a href="#">LSTAT2011</a> , <a href="#">LSTAT2014</a> are supplementary classes for students who have not taken an equivalent course.	<a href="#">Access based on application</a>	
Tous les autres licenciés	<a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> or <a href="#">LIEPR1004A</a> is supplementary classes for students who have not taken an equivalent course.  <a href="#">LSTAT2011</a> , <a href="#">LSTAT2014</a> are supplementary classes for students who have not taken an equivalent course.	<a href="#">Access based on application</a>	Subject to the acceptance of the jury, a student may be exempted from a maximum of 60 activity credits and possibly complete the master's degree in Biostatistics in a single year.
<b>Masters</b>			
Masters belges de la communauté française: Bioingénieur Ingénieur civil (sauf ingénieur civil architecte) Sciences mathématiques Ingénieur de gestion Sciences informatiques Sciences physiques Science des données	<a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> or <a href="#">LIEPR1004A</a> is supplementary classes for students who have not taken an equivalent course.	Direct access	Subject to the acceptance of the jury, a student may be exempted from a maximum of 60 activity credits and possibly complete the master's degree in Biostatistics in a single year.
Sciences biologiques Sciences biomédicales	<a href="#">LSTAT2011</a> , <a href="#">LSTAT2014</a> are supplementary classes for students who have not taken an equivalent course.	<a href="#">Access based on application</a>	
Tous les autres masters	<a href="#">LBIO1110</a> , <a href="#">LBIO1111</a> ou <a href="#">LIEPR1004A</a> is supplementary classes for students who have not taken an equivalent course.  <a href="#">LSTAT2011</a> , <a href="#">LSTAT2014</a> are supplementary classes for students who have not taken an equivalent course.	<a href="#">Access based on application</a>	Subject to the acceptance of the jury, a student may be exempted from a maximum of 60 activity credits and possibly complete the master's degree in Biostatistics in a single year.

## Holders of a non-University 2nd cycle degree

### Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

### Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

Foreign students who have succeeded an university education (minimum 3 years) with strong quantitative connotation and who have obtained at least 70% (or 14/20) of average for all successful university years in their home university, without fail in mathematics/statistics/probability, have the possibility to apply for admission to the master's program in statistics, biostatistics orientation (120 ECTS).

Students who wish to be admitted on the basis of a dossier are invited to consult the [criteria for the evaluation of application](#).

## Admission and Enrolment Procedures for general registration

The student contacts the LSBA secretariat if a faculty authorization has been requested by the registration service. The student then establishes his program with the study consultant of the purpose concerned (<https://uclouvain.be/fr/facultes/sc/infos-lsba.html>).

## Teaching method

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Most of the teaching units applied statistics methods & tools include practical work on computers and an application project involved in the evaluation. This approach allows the student to systematically implement the tools presented in the methodological presentations and thus be prepared for field work. The implementation of projects also fosters a stimulating and friendly spirit of collaboration among the students in the program. The program offers the possibility of an internship in a company or in a research laboratory that will eventually complete the methodological aspects of the thesis. Most of the teaching units provided by statistical teachers are available on

