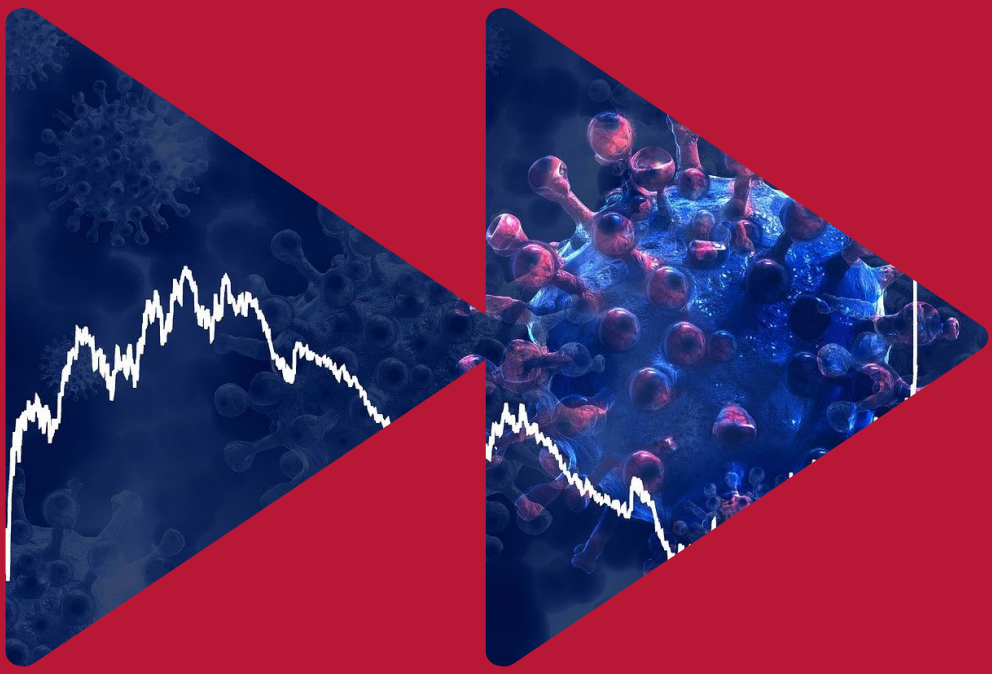
UNIVERSIDAD
COMPLUTENSE
MADRID



Master's Degree
Faculty of Statistical Studies

BIOSTATISTICS

Master's Degree
Biostatistics

Field of Study: **Mathematics and Statistics**
Responsible Center: **Faculty of Statistical Studies. Universidad Complutense de Madrid (UCM)**

https://estudiosestadisticos.ucm.es/master-bioestadistica

Orientation: **scientific-academic**
Credits: **60 ECTS**
Duration: **1 year (2 semesters)**
Modality: **on-site**

OBJECTIVES

The Master in Biostatistics is aimed at specialization in statistics applied to the Health and Life Sciences, both in the academic and research fields. Its main objectives are:

- To provide solid methodological training in Statistics and Probability focused on professional development in the field of Biostatistics.
- To enable students to handle and develop new tools and statistical software.
- To offer multidisciplinary preparation that facilitates integration into different fields of the Health and Life Sciences.
- To train professionals capable of assuming technical and scientific responsibility in managing and applying statistical activities within research teams and professional environments related to the Health and Life Sciences.

RECIPIENTS

Prospective students should hold an undergraduate degree with a strong statistics component. Also suitable for this Master are professionals or researchers, with a science degree or a degree in one of the health sciences, with a firm interest in and needs for statistics.

WHY STUDY THIS MASTER DEGREE?

The Master in Biostatistics provides a solid and rigorous training in statistical methodology, equipping future professionals and researchers with the skills to develop, adapt and apply advanced statistical tools in the fields of Biology, Medicine, Veterinary, Pharmacy, and, more broadly, across all areas related to the Health and Life Sciences.

- The programme is oriented towards both professional specialisation and research training, facilitating access to positions in public health institutions, research centers, hospitals, as well as in the private sector, including the pharmaceutical industry, research institutes, and consultancy firms.
- This qualification also prepares students to undertake a PhD in the field of biostatistics, thereby broadening their academic and professional prospects.

The Master in Biostatistics represents an excellent opportunity to acquire in-demand competencies and to access new career paths in one of the sectors with the greatest potential for growth.

STRUCTURE

The Master consists of 60 credits organized in modules and subjects:

- Module I. Statistics and Computer Tools: 12 mandatory ECTS
- Module II. Research Studies Design and Dissemination of Results: 12 mandatory ECTS
- Module III. Advanced Statistical Modelling: 18 mandatory ECTS
- Module IV. Specialization seminars: 6 mandatory ECTS
- Module V. Master's Thesis 12 mandatory ECTS

Students have to complete a total of 60 credits in two semesters: eight compulsory subjects and the Master's Thesis.

STUDY PLAN

SUBJECT TYPE	ECTS
Mandatory	48
Master's Thesis	12
Total	60

COMPULSORY SUBJECTS	ECTS	SEMESTER
Statistics and Computer Tools Module		
Probability and Simulation	6	1º
Software for Database Management	6	1º
Research Studies Design and Dissemination of Results Module		
Evidence	6	1º
Methodology and Research Design	6	1º
Advanced Statistical Modeling Module		
Applied Mixed Models	6	1º
Bayesian Satitistics	6	2º
Survival Analysis	6	2º
Specialization Seminars Module		
Specialization Seminars	6	2º

MASTER'S THESIS	ECTS	SEMESTER
Master's Thesis	12	2º

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Másteres UCM

Faculty of Statistical Studies

Campus de Moncloa

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For more information: https://estudiosestadisticos.ucm.es/master-bioestadistica

January 2026. The content of this brochure is subject to possible modifications

www.ucm.es