The aim
of this master’s degree is to provide students with advanced knowledge of theory and methods in statistics and operations research.

Access to doctoral studies
Graduates of this master’s degree may gain access to the following doctoral degrees: Doctoral degree in Statistics and Operations Research (UPC), doctoral degree in Economics (UB), doctoral degree in Medicine (UB). All of the doctoral degrees above have been distinguished with the Pathway to Excellence award by the Spanish Ministry of Education.

More information:
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This master’s degree has the support of accenture

MASTER’S DEGREE IN
STATISTICS
AND OPERATIONS
RESEARCH
(MESIO UPC-UB)
MASTER’S DEGREE IN STATISTICS AND OPERATIONS RESEARCH (MESIO UPC-UB)

The aim of the master’s degree in Statistics and Operations Research (MESIO UPC-UB) is to provide students with advanced knowledge of theory and methods in statistics and operations research. Graduates of the master’s degree will be able to apply the skills that they have acquired in areas such as healthcare, data science, business, industry, government agencies and services. They are also given research training that prepares them for the doctoral degree.

The MESIO UPC-UB is an interuniversity master’s degree that is organised jointly by the Universitat Politècnica de Catalunya (UPC) and the Universitat de Barcelona (UB) and coordinated by the School of Mathematics and Statistics (FME). Students benefit from the combined expertise of UPC and UB teaching staff, expertise which is grounded in internationally recognised research in the fields of biostatistics, bioinformatics, econometrics, operations research, optimisation, data science and industrial statistics.

Curriculum

The curriculum comprises a total of 90 ECTS that are taken over three semesters: 60 ECTS for courses and 30 ECTS for the master’s thesis.

Compulsory training (20 ECTS)
- Common compulsory training (10 ECTS)
  - Graduates in Statistics and Mathematics
  - Pathway 1 (10 ECTS)
  - Graduates of other disciplines
  - Pathway 2 (10 ECTS)

Optional training (40 ECTS)
- Intensifications
  - Business and Social Statistics
  - Biostatistics and Bioinformatics
  - Operations Research
  - Data Science

Master’s thesis (30 ECTS)

Requirements

The master’s degree is intended for graduates of bachelor’s degrees in disciplines with solid background in statistics and/or operations research. Prospective students should ideally be interested in understanding numerical information, solving problems, explaining findings and drawing conclusions. They should have an aptitude for numerical reasoning, be critical thinkers and skilled communicators.

Intensifications
- Business and Social Statistics
- Biostatistics and Bioinformatics
- Operations Research
- Data Science

Admission criteria

The following will be taken into consideration during the admission process:
- Academic record and grades
- Relevant projects or work experience
- Letters of recommendation

Mobility programmes

The master’s degree promotes the mobility of its students through agreements with other universities in Europe, Latin America and the rest of the world, within the framework of international mobility programmes such as Erasmus+ and UPC Europe. Needless to say, students from other universities are welcome.

International recognition

The MESIO UPC-UB was awarded the International Master’s Programme distinction by the Government of Catalonia’s Agency for the Management of University and Research Grants (AGAUR) in the 2013 call. The UPC and the UB occupy significant positions in the fields of Mathematics and Statistics in international rankings such as the Shanghai Ranking, in which the UB is among the top 200 universities in the world and the UPC is among the top 400 (being respectively the 1st and among the best 9 universities in Spain).

Professional opportunities

Graduates of the master’s degree will be experts who may be employed at national or international institutions.

Scholarships

In addition to scholarships of a more general nature, the MESIO UPC-UB offers the Accenture-MESIO UPC-UB scholarships. These scholarships are offered in collaboration with Accenture and cover enrolment fees and paid internships. It also offers the Accenture MESIO UPC-UB Student Award for the best academic records.

Work placements

Students enrolled in the master’s degree can complete their education through a work placement at a company.

Master’s thesis

The master’s thesis can be oriented towards research or applications. Students have the option to carry it out at a department, a research group, another university, a company or a national or international institution.
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The best information for the best decision