

GENERAL STRUCTURE OF THE STUDY PROGRAM

To obtain the masters degree in advanced and professional mathematics, students must obtain between 60 and 120 ECTS credits, depending on their previous academic achievement. The minimum length of study is one academic year, which corresponds to 60 ECTS credits.

Students will work towards one of the three specialities offered by the masters – research, professional and advanced academic training. The masters program includes bridging subjects and modules of general interest for all students, as well as other more specialized or advanced courses. For the research or professional specialities, students must obtain a minimum of 36 credits in subjects in their speciality: that is, advanced credits for the research speciality, and professional credits for the professional speciality. Otherwise, students will study for the advanced academic training speciality.

All students in the research and advanced academic training specialities must complete a final project, worth 15 ECTS credits. Students in the professional speciality must complete a practicum, also worth 15 ECTS credits.

All students will be assigned a tutor, who will decide the courses they will study during the program bearing in mind their previous training and their intended professional profile. They must obtain at least 60 ECTS credits in non-bridging subjects including the final project or practicum during the masters program.

Graduates who have studied the mathematics syllabus at a Spanish university will be granted 60 ECTS credits in bridging subjects. To obtain the masters degree they will only need to obtain 60 ECTS credits in non-bridging subjects from the program, including their final project or practicum.

Students will need to acquire a solid grasp of the following disciplines:

For the research speciality, at least two of the following areas:

- Algebra
- Mathematical Analysis
- Geometry
- Applied Mathematics
- Probability and Statistics
- Topology

For the professional speciality, at least two of the following areas:

- Computation and Software
- Applied Mathematics
- Modelling
- Probability and Statistics

In the advanced academic training option, the aim is to further students' knowledge and understanding of general interest subjects in at least three of the areas mentioned above. Students may also enrol for other more specialized subjects of their interest.