

Mathematics and Computing Applied to Social Sciences (MIASHS) Bachelor's Degree

The majority of our courses are taught in French. We invite you to also have a look at the [list of courses offered in English at Rennes 2](#).

Objectives

MIASHS is a generalist training course with a scientific, multidisciplinary and professional focus.

- **Generalist:** students can choose from a wide range of courses in economics, computer science, statistics, management or teaching professions (school professorships).
- **Scientific:** mainly mathematics, statistics and computer science.
- **Multidisciplinary:** economics, econometrics, sociology, law and marketing are an essential part of the training.
- **Professionalization:** students gain professional experience as a statistical and data processing technician. The degree aims to give internships a prominent role (compulsory or recommended depending on the choice of pathway).

Skills

The skills acquired in these mathematics / statistics / computer science courses are as follows:

- **translating a simple problem** into mathematical language;
- **building and writing** a synthetic and rigorous mathematical proof;
- **applying** the bases of probabilistic reasoning without difficulty;
- **implementing** a statistical approach to data processing;
- **using digital reference tools** to process information and collaborate internally and externally;
- **designing applications** and algorithms from partial technical specifications;
- **analysing and interpreting** the results produced by running a programme.

Course Content

The training respects the principle of progressive specialization.

Year 1 (L1) is common to all students. This first year offers classes in economics, sociology and law, enabling students to move towards one of the two pathways offered from year 2 (L2) onwards.

Years 2 and 3 (L2 and L3) are based on the following two pathways

- **Human and Social Sciences** (Rennes 2)
- **Economics** (Rennes 1).

Mathematics, statistics, computer science and language classes are shared by both pathways over the three years.