

# Master Finance

## Track Financial Modelling

**Option(s):**  
→ Magistère

The programme offers a comprehensive approach to financial and actuarial modelling, equipping students with both empirical and theoretical skills. This enables them to gain a specific understanding of market mechanisms and the tools to model them. The primary objective is to furnish students with a robust set of theoretical and empirical tools, enabling them to thrive in various roles within the financial and actuarial sectors and comprehend future challenges. This track is co-organised with Centrale Méditerranée, and the majority of courses are shared between the two schools.

Programme co-organised with Centrale Méditerranée.

## General presentation

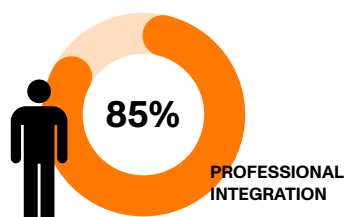
### ● Aims

- Understanding the functioning of insurance and finance markets.
- Analysing and modelling financial and insurance-related settings to formulate effective strategies.
- Evaluating financial assets before making positioning decisions (buying/selling).
- Evaluating companies or projects for funding or transaction purposes.
- Comparing investment strategies.
- Measuring the performance of financial assets.
- Modelling behaviour in the face of risk.
- Solving complex financial problems.

### ● For which jobs?

Risk Analyst (BNP PARIBAS); ALM analyst (Boursorama); Actuarial analyst (AXA); Insurance-Linked Securities Analyst (Gallagher Re); Assistant trader (CACEIS); Junior quantitative trader (Woorton); Junior financial analyst (TOTAL ENERGIE); Group Risk Manager (CMA CGM); Credit risk analyst (Engie Global Market).

Watch the alumni talks on YouTube: <https://www.youtube.com/c/AMSEChannel/playlists>



*Situation of working people in employment 6 months after graduation. This result comes from the professional integration survey conducted among the 2022 graduates of the Econometrics, Big Data and Statistics course, by the Aix-Marseille University Student Life Observatory.*

## ● Admission and prerequisites

Priority access is afforded to M1 students from the Master's in Finance of the AMSE department of the Faculty of Economics and Management or to second year students from the engineering program of Centrale Méditerranée. However, parallel entry to M2 may be considered for students who have validated 60 credits at M1 Economics level in a course with a strong quantitative focus. Applicants should have a strong foundation in microeconomics, particularly in contract theory. Additionally, a solid understanding of probabilities, including conditional probabilities, and statistics (estimating and testing) is essential. Familiarity with notions in the economics of uncertainty is recommended.

## ● Internships and supervised projects

At the end of the year, students carry out an internship and write a Master's internship report. The goal of the report is to prove their ability to apply the conceptual tools they have acquired to issues from the professional world. The student must therefore identify the question, implement the tools and be able to communicate the results to a professional as well as an academic audience. The project is supervised by an academic tutor and by an internship director (from the company). The report is defended in front of a jury comprised of the academic tutor, the internship director and two other people with acknowledged skills (and at least one scholar).

## Option(s)

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### → Magistère Economics, Data Science and Finance

This option provides high level training in quantitative methods and economic analysis, leads to three diplomas in three years (a bachelor's degree, a Master's degree and the Magistère diploma). In the first year of the Magistère the student follows specific courses + some courses of one of these bachelor's degrees from the Faculty of Economics and Management:

- L3 Economics-Finance of the Economics-Management BA degree taught in Marseille,
- L3 Mathematics-Economics of the Mathematics and Computer Science Applied to Human and Social Sciences BA degree taught in Aix.

In the second and the third years of the Magistère, the student follows specific courses + some courses of the Master Economics or the Master Econometrics Statistics or the Master Finance.

A semester of study abroad is an integral part of the program. Students can also spend their second year (M1) abroad as part of the double Master's degrees offered by the school. In-depth English is an important part of the training in the first year for preparing the mobility.

Entry to the Magistère is selective on the basis of the student's academic grades obtained in Licence 2 or French *Classes Préparatoires aux Grandes Écoles (CPGE)*.

→ More info  
on our website



→ Admission  
on the platforms

- Mon Master
- E-Candidat
- Campus France

→ Language  
Programme entirely  
taught in English

Head:  
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Information:  
- Registration fees to the Master: €243  
- Credits: 120  
- Registration fees to the Magistère option: fees of the bachelor or the master + €1200 over the three years

[amse-aixmarseille.fr/en](http://amse-aixmarseille.fr/en)

