



Faculté d'Économie
et de Gestion
Aix-Marseille Université



DOUBLE DEGREE PROGRAMME

Quantitative economics

with Università Ca' Foscari Venezia

M1 Master ECONOMICS FINANCE AND SUSTAINABILITY track QEM

M2 Master ECONOMICS track ETE or APE or EBDS

The first year will take place in Italy, Ca' Foscari Venezia

Track - Quantitative Economics master (QEM)

Courses – Quantitative Economics	ECTS
Microeconomics I	7
Macroeconomics I	7
Optimization	7
Probability Theory	7
Microeconomics II	7
Macroeconomics II	7
Econometrics	7
Behavioural Economics	6
4 ECTS credits to be chosen from the following exams	
Italian as foreign language I	4
English as foreign language I	4
French as foreign language I	4
Spanish as foreign language I	4
German as foreign language I	4

The second year will take place in France, AMSE graduate school, Aix-Marseille University

The student chooses one programme between one of the three following tracks:

Track 1 - Empirical and theoretical economics (ETE)

Courses Empirical and theoretical economics – Term 3	ECTS
Common core - Advanced macroeconomics - Advanced microeconomics - Advanced econometrics	9
Economics of networks - Development economics - Economics of networks - Development economics	6
Introduction to research	3
Elective teaching units (choose 1 among 2) - Political economy - Incentives theory - Macroeconomic cycles - Dynamic macroeconomics	6 6 6
Elective teaching units (choose 1 among 2) - Public choice - International trade - Health economics - Environmental economics	6 6 6
Courses Empirical and theoretical economics – Term 4	ECTS
Research methodology I and II	4
Research dissertation or end-of-study internship with report and defence	20
Elective teaching units (choose 1 among 2) - Labor economics - Labor econometrics - Advanced econometrics	6 6

Track 2 - Economic policy analysis (APE)

Courses Economic policy analysis – Term 3	ECTS
Methodology - Writing and oral communication training - Project management	6
Decision-making support: quantitative methods - Quantitative tools in economics - Public policies econometrics	6
Contemporary economy issues - Applied economics issues - Big data and public policies - Transitions and economic policies	9
Elective teaching units (choose 3 among 6) - Economics, finance and crises - Programming for Big Data (Python, SQL, noSQL, etc) - Development economics - Health economics - Environmental economics - Housing economics	9 3 3 3
Courses Economic policy analysis – Term 4	ECTS
Knowledge of the professional environment - Corporate strategy - Collaborating with public organizations	6
End-of-study internship with report and defence	24

Track 3 - Econometrics, Big Data, Statistics (EBDS)

Courses Econometrics, Big Data, Statistics – Term 3	ECTS
Non-linear models: theory and applications - Transition and duration models - Models for truncated and censored variables	6
Advanced econometrics I: theory and applications - Non parametric methods in econometrics - Multivariate and non-linear time series	6
Advanced econometrics II: theory and applications - Methodology of econometrics and statistical studies - Advanced econometrics	6
Languages, softwares and tools for Big Data - Programming for Big Data (Python, SQL, noSQL, etc) - Software for big data	6
Applications for Big Data: elective teaching units (choose 2 among 4) - Big data and public policies - Big data and quantitative marketing - Big data and finance - Big data: other applications	6 3 3 3 3
Courses Econometrics, Big Data, Statistics – Term 4	ECTS
Advanced methods in Big Data - Automatic model selection methods - Predictive methods - Machine learning and statistical learning	9
End-of-study internship with report and defence	21



CONTACTS

Please do not hesitate to contact us if you have any question or concern.

Aix-Marseille School of Economics

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