



Faculté d'Économie
et de Gestion
Aix-Marseille Université



DOUBLE DEGREE PROGRAMME with the Católica Lisbon university



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et de Gestion
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L'ÉCOLE
DES HAUTES
ÉTUDES EN
SCIENCES
SOCIALES



THE FIRST YEAR WILL TAKE PLACE IN PORTUGAL/CATOLICA LISBON

Courses	ECTS
Microeconomics	16
- Microeconomics	4.5
- Imperfect Markets	4.5
- Game Theory	3.5
- Information and Uncertainty	3.5
Macroeconomics	8
- Macroeconomics	4.5
- Economic Growth	3.5
Quantitative Methods	16
- Mathematics for Economists or Advanced Mathematics	3.5
- Introduction to Econometrics or Forecasting	3.5
- Econometrics	4.5
- Microeconometrics	4.5
Economics Electives	14
Additional requirements	4
- Ethics in Economics	2
- Career Accelerator Lab	2

The second year will take place in France/Aix-Marseille University - AMSE

The student may choose between one of the four tracks:

Track 1 - Empirical and theoretical economics

TERM 3 - Courses	ECTS
Common core - Advanced macroeconomics - Advanced microeconomics - Advanced econometrics	9
Economics of networks - Development economics - Economics of networks - Development economics	6
Introduction to research - Research questions	3
Elective teaching units (choose 1 among 2) - Political economy - Incentives theory ○ Political economy ○ Incentives theory - Macroeconomic cycles - Dynamic macroeconomics ○ Macroeconomic cycles ○ Dynamic macroeconomics	6 6 6
Elective teaching units (choose 1 among 2) - Public choice - International trade ○ International trade ○ Public choice - Health economics - Environmental economics ○ Health economics ○ Environmental economics	6 6 6
TERM 4 - Courses	ECTS
Research methodology - Research methodology I - Research methodology 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 ○ Labor economics ○ Labor econometrics - Advanced econometrics ○ Automatic model selection methods ○ Theoretical econometric	6 6 6

Track 2 - Economic policy analysis

TERM 3 - Courses	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 ○ Economics, finance and crises - Programming for Big Data (Python, SQL, noSQL, etc) ○ Programming for Big Data (Python, SQL, noSQL, etc) - Development economics ○ Development economics - Health economics ○ Health economics - Environmental economics ○ Environmental economics - Housing economics ○ Housing economics	9 3 3 3 3 3 3
TERM 4 - Courses	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

TERM 3 - Courses	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 o Big data and public policies - Big data and quantitative marketing o Big data and quantitative marketing - Big data and finance o Big data and finance - Big data: other applications o Big data: other applications	6 3 3 3 3
TERM 4 - Courses	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

Track 4 - Quantitative finance and insurance

TERM 3 - Courses	ECTS
Theory of financial markets - Models of finance - Portfolio management	6
Economic and financial analyses - Corporate finance I - Economics of risk and insurance	6
Mathematics and statistics for finance - Stochastic finance - Econometrics of banking and finance	6
Quantitative methods in finance and insurance - Big data and finance - Actuarial science I	6
Economics of finance - Economics, finance and crises - Innovation and finance	6
TERM 4 - Courses	ECTS
End-of-study internship with report and defence	24
Elective teaching units (choose 2 among 4) - Numerical methods for finance ○ Numerical methods for finance - Actuarial science II ○ Actuarial science II - Corporate finance ○ Corporate finance II - Credit risk ○ Credit risk	6 3 3 3 3



CONTACTS

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

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<http://amse-feg.univ-amu.fr/>

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