



# DOUBLE DEGREE PROGRAMME

## With the university of Tübingen



The first year will take place in Germany/Tübingen

M1 European Economics Tübingen	ECTS
<b>Core courses</b>	18
<b>Core Studies Econometrics</b> Advanced Time Series Analysis or Advanced Microeconometrics	0-9 9
<b>Core Studies International Economics &amp; Economics</b> Advanced Microeconomics or Advanced Macroeconomics	9-18 9
<b>Specialization Studies: Economics</b> In the specialization studies, students have to obtain a minimum of 33 and a maximum of 42 credits. Modules chosen within this area must be assigned to the focuses chosen in the area of Core Studies. Within each of the focuses, a minimum of 6 ECTS must be obtained. In brackets are the semester as well as the ECTS of the courses.	33-42
<b>Economics</b> - Open Economy Macroeconomics (Winter Semester) - Financial Economics (Winter Semester) - Advanced Mathematical Methods (Winter Semester) - Economics of Taxation (Spring Semester) - Monetary Economics (Spring Semester) - Advanced Labour Economics (Spring Semester) - Behavioral Economics (Spring Semester)	6 9 3 9 6 6 6
<b>Elective courses 9 credits among which the shared UE between Tübingen and AMSE:</b> - Master seminar European Economic Integration (Spring Semester)	9

## The second year will take place in France/Marseille

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 - Macroeconomic cycles - Automatic model selection methods	6 6 6
Elective teaching units (choose 1 among 2) - Public choice - International trade - Health economics - Environmental economics	6 6 6
TERM 4 - Courses	ECTS
Research methodology	4
Research dissertation or end-of-study internship with report and defence	20
Elective teaching units (choose 1 among 2) - Labor economics - Labor econometrics - Theoretical econometric - Dynamic macroeconomics	6 6 6

## Track 2 - Economic policy analysis (APE)

TERM 3 - Courses	ECTS
Methodology - Writing and oral communication training - Project management	6
Decision-making support: quantitative methods - Quantitative tools in economics - Econometrics of impact assessment	6
Contemporary economy issues - Applied economics issues - Transitions and economic policies - Big data and economics	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 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 (EBDS)

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

## Track 4 - Quantitative finance and insurance (FQA)

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)	6
- Numerical methods for finance	3
- Actuarial science II	3
- Corporate finance II	3
- Credit risk	3





## CONTACTS

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

Aix-Marseille School of Economics

[infoecole@amse-aixmarseille.fr](mailto:infoecole@amse-aixmarseille.fr)

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

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