



Faculté d'Économie  
et de Gestion  
Aix-Marseille Université



# DOUBLE DEGREE PROGRAMME

## Data analytics

### with Università Ca'Foscari Venezia

*Subject to approval by Aix-Marseille University (CFVU and CA)*



**Prerequisites for this double degree programme → Strong background in scientific methods**  
(mathematics, physics or computer science)

**M1 Master DATA ANALYTICS FOR BUSINESS & SOCIETY**

**M2 Master ECONOMICS track ECONOMETRICS BIG DATA STATISTICS**

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

<b>Courses Data analytics for business and society</b>	<b>ECTS</b>
Computer Programming and Data Management	12
Statistical Learning for Data Science	12
Econometrics	6
Economics of Risk and Agent's Behaviour	6
Managerial Decision Making and Modelling	6
Data Analytics and Artificial Intelligence	12
Data Protection Regulation	6

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

<b>Courses Econometrics, Big Data, Statistics – Term 3</b>	<b>ECTS</b>
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, software, 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
<b>Courses Econometrics big data statistics – Term 4</b>	<b>ECTS</b>
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

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

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

© Photos by Yasonya, dietwalther, Syda Productions on Adobe Stock