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UNIVERSITY OF NAPLES  
"PARTHENOPE"

Department of Economic and Legal Studies

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## WHERE WE ARE

Department of  
ECONOMIC AND LEGAL STUDIES

Palazzo Pacanowski  
Via Generale Parisi, 13 - 80132 Naples



A.Y. 2015-16



UNIVERSITY OF NAPLES  
"PARTHENOPE"

GUIDANCE AND TUTORING

Department of  
ECONOMIC AND LEGAL STUDIES

Master's Degree Course

Quantitative Methods for Business  
Decision-making  
(Class LM-83)

[www.uniparthenope.it](http://www.uniparthenope.it)

## COURSE OVERVIEW

The master's degree course in Quantitative Methods for Business Decision-making gives graduates a solid grounding in statistics and mathematics and their applications, with particular reference to business planning and marketing. The course is the natural continuation and completion of the first-level degree in Statistics and Information Technology for Business Management. The master's degree course is a two-year course consisting of coordinated and complementary classes, as well as elective modules, totalling 120 ECTS, which also include a foreign language and IT skills.

## CAREER PROSPECTS

Graduates in Quantitative Methods for Business Decision-making are professionals with management skills able to cover managerial and strategic functions, with the support of quantitative tools needed for decision-making. They can find employment with public and private companies and business consulting firms as strategic planning managers for the construction and management of support systems for strategic business and market decision-making. They can also hold the functions of data analysis experts, information system managers, and experts in the application of quantitative methods for business risk control and management. Professional opportunities can also be found with banks, insurance companies, social security agencies and financial intermediation companies for the management of control procedures and the validation of risk portfolio data, typical of private and social insurance systems, financial institutions and markets. In addition, the master's degree in Quantitative Methods for Business Decision-making gives access to the Public Qualifying Examination for the profession of actuary.

## SYLLABUS

The course deepens knowledge in statistics, mathematics; it guarantees the collection and management of internal and external information. It aims to provide specific skills regarding the following aspects:

- an effective formulation of competitive business strategies;
- business and financial risk analysis connected with the exercise of insurance and national insurance activities;
- the actuarial analysis and revision of financial statements and insurance portfolios, the technical audit of pension funds, and the associated reporting and certification.

The syllabus consists in the acquisition of:

- specialised knowledge in the areas of applied statistics, applied mathematics, economics, business and law, with specific reference to the aims of the degree course;
- knowledge of related subjects, such as IT for business applications.

Further training in a foreign language and external activities such as a period of internship are also provided. Additional teaching materials can be accessed through our new e-learning platform (Moodle) available at: <http://192.167.9.20/moodle/>.

For further Information, please visit our website:  
[www.diseq.uniparthenope.it](http://www.diseq.uniparthenope.it)

## SYLLABUS

Year I	ECTS
Introduction to Financial Mathematics	9
Mathematics for Decision-making and Control	12
Quantitative Methods for Decision-making	6
Economic and Financial Policy	9
Strategy and Business Policy	9
Advanced Business IT Tools	6
Statistical Tools and Tax Law	6
Year II	
Geomarketing Analysis (modules I & II)	9
Statistics for Performance Evaluation (modules I & II)	9
Strategic Planning Simulation	6
Statistical Tools for Marketing (modules I & II)	9
Foreign Language skills (En/Fr/Es)	6
Elective Module	9
Internship or alternative activities	3
Final Examination	12