

Bachelor • Porto

COMPUTATION AND APPLIED MATHEMATICS



Direction

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Secretariat

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Duration

3 Years

Credits

180 ects

Presentation

Exams

Have one of the following sets:

- 16 Matemática
- 04 Economia and 16 Matemática
- 07 Física e Química and 16 Matemática

STUDY PLAN

1st Year / Common Core

1º Semestre	ects	2º Semestre	ects
Data Science Foundations	6	Exploratory Data Analysis	6
Discrete Mathematics	6	Introduction to Mathematical Probability	6
Mathematics I	6	Linear Algebra	6
Numerical Analysis	6	Mathematics II	6
Programming Fundamentals	6	Programming Languages	6

2nd Year / Common Core

1º Semestre	ects	2º Semestre	ects
Algorithms and Data Structures	6	Introduction to Stochastic Processes	6
Databases	6	Introduction to the Theory of Graphs and Networks	6
Fundamentals of Data Engineering for Data Science	6	Machine Learning I	6
Introduction to Computer Science	6	Statistical Methods	6
Introduction to Ordinary Differential Equations	6	Visualization for Data Science	6

3rd Year / Common Core

Anual	ects	1º Semestre	ects	2º Semestre	ects
Final Course Work	20	Machine Learning II	5	Cloud Information Systems	5
		Operational Research	5	Computer Networks	5
		Option I	5	Option III	5
		Option II	5	Option IV	5

Linha direta
para o teu futuro



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