



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore

# Double degree study plan

## First Year (Southampton)

MATH6129 Actuarial Mathematics I

---

MATH6121 Economics

---

MATH6131 Financial Mathematics

---

MATH6122 Probability and Mathematical Statistics

---

MATH6130 Actuarial Mathematics II

---

MATH6127 Mathematical Finance

---

STAT6075 Statistical Methods in Insurance

---

MATH6128 Stochastic Processes

---

One of the following:

MATH6131 Actuarial Science Project

---

MATH6159

MATH6160 Actuarial Science Case Studies

---

Electives at Soton (see below)

## Second Year (Università Cattolica)

Accounting and management in insurance
Insurance Statistics and Advanced Risk Theory
Insurance law and regulation
Actuarial Non-Life Insurance
Actuarial Models for Social Security and Pension Funds
Foreign Language (German, French, Spanish or Italian for foreigners)
Thesis*

\*The Soton report of the Project or a Case Study may be considered as a base for the Thesis at Università Cattolica. However, the normal procedure for Thesis at Università Cattolica is applied.



UNIVERSITÀ  
CATTOLICA  
del Sacro Cuore

If the Soton MSc is earned without one or more of the 8 exams listed in the first year study plan, the Università Cattolica correspondence must be taken during the 2nd year at Università Cattolica.

**Electives :**

At least two of the following courses during the 1st year at Soton and/or 2nd year at Università Cattolica (it is required at least 1 elective at Università Cattolica).

Survival Models (1st year - Soton)

---

Accounting and Finance for Actuarial Science (1st year - Soton)

---

Derivative security pricing (2nd year – Università Cattolica)

---

Risk management (2nd year - Università Cattolica)

---

EU risk governance regulation (2nd year - Università Cattolica)

---

Statistical modelling (2nd year - Università Cattolica)

---

Quantitative risk management (2nd year - Università Cattolica)

---

Actuarial and financial modelling for Solvency II (2nd year - Università Cattolica)

---

Introduction to Actuarial Mathematics and Risk Theory\* (2nd module) (2nd year - Università Cattolica)

---

Internship (2<sup>nd</sup> year – Università Cattolica)

---

\*This elective is strongly recommended for students with a bachelor's degree other than EMIF – Curriculum MQFA at Università Cattolica

---