

Actuarial & Financial Studies

CAO code: DN230

Sample pathway for a degree in Actuarial & Financial Studies *



YEAR 1

ENGAGE WITH THE PRINCIPLES

ACTUARIAL & FINANCIAL STUDIES

Topics include:

- ▶ Linear Algebra
 - ▶ Advanced Calculus
 - ▶ Statistical Modelling
 - ▶ Numbers and Functions
- ▶ Introduction to Actuarial & Financial Studies
 - ▶ Fundamentals of Actuarial Business Theory
- ▶ Introduction to Programming
 - ▶ Financial Accounting
 - ▶ Differential & Difference Equations
 - ▶ Principles of Finance
- ▶ One Elective module

YEAR 2

BROADEN YOUR KNOWLEDGE

ACTUARIAL & FINANCIAL STUDIES

Topics include:

- ▶ Economic History
 - ▶ Professional & Classical Ethics
 - ▶ Probability Theory
 - ▶ Inferential Statistics
- ▶ Advanced Corporate Finance
 - ▶ Bayesian Analysis
 - ▶ Predictive Analysis
 - ▶ Fundamentals of Actuarial Mathematics
- ▶ Two Elective modules

- Learn how actuaries understand the nature of risk and find ways to manage it
- Develop the analytical skills and business knowledge necessary to design and manage programmes that control risk for the insurance and pension sectors

YEAR 3

REFINE YOUR KNOWLEDGE

ACTUARIAL & FINANCIAL STUDIES – Topics include:

- ▶ Investing and Trading
 - ▶ Stochastic & Survival Models
 - ▶ Time Series Analysis
- ▶ Information Management for Actuaries
 - ▶ Workplace Skills
 - ▶ BAFS Professional Work Placement (at least 6 months)
- ▶ Two Elective modules

YEAR 4

REFINE YOUR KNOWLEDGE

ACTUARIAL & FINANCIAL STUDIES – Topics include:

- ▶ Actuarial Statistics
 - ▶ Core Actuarial Principles
- ▶ Financial and Actuarial Mathematics
 - ▶ Actuarial Mathematics
- ▶ One Optional Module

BAFS (Honours) Actuarial and Financial Studies

Industry	PhD	Conversion Courses
<ul style="list-style-type: none"> ▶ Insurance Actuarial Trainee in the following areas: <ul style="list-style-type: none"> ▶ Life ▶ Pensions ▶ Investment ▶ Health ▶ General Insurance ▶ Banking or Finance ▶ Trading 	<ul style="list-style-type: none"> ▶ Students can pursue a PhD in Ireland or abroad in areas as diverse as: Mathematics, Statistics and Actuarial studies 	<ul style="list-style-type: none"> ▶ MSc Data & Computational Science ▶ MSc Mathematical Sciences ▶ MSc Mathematics ▶ MSc Statistics

*See pages 4 and 5 for information on the terminology used above. Potential combinations shown here are examples only and are not guaranteed by UCD. Topics are subject to change each year.

“The wide recognition of the BAFS course was really useful in applying for jobs. The BAFS course was great preparation for the further actuarial exams and left me with a very sound technical knowledge in this area. Doing the work placement on the BAFS course was a huge help, and meant I could settle into the work environment very quickly.”

Sean Roe, Graduate

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