

Actuarial & Financial Studies

CAO code: DN230

Sample pathway for a degree in Actuarial & Financial Studies *

YEAR 1

ENGAGE WITH THE PRINCIPLES

ACTUARIAL & FINANCIAL STUDIES

Modules 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

Modules include:

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

YEAR 3

REFINE YOUR KNOWLEDGE

ACTUARIAL & FINANCIAL STUDIES – Modules 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 – Modules 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
Actuarial Trainee in the following areas: <ul style="list-style-type: none"> ▶ Life Insurance ▶ Pensions ▶ Investment ▶ Health Insurance ▶ General Insurance ▶ Banking or Finance ▶ Trading 	▶ 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 Science ▶ 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. Modules are subject to change each year.



- 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



“ I chose this course because I have always enjoyed maths and problem solving and applying these skills in the financial world seemed like the most interesting and rewarding opportunity. My favourite aspect of the course is how diverse it is, encompassing areas such as maths, finance and programming. Last May I had the opportunity to speak at the Society of Actuaries annual convention. A group of my fellow classmates and I spoke about the potential sectors of employment for Actuaries to work in in the future. We were the first ever university students to speak at the event which was a wonderful opportunity to gain an insight into the actuarial profession, while also hopefully inspiring some new areas for actuarial work! ”

Rebecca O'Mahoney

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