

# Actuarial & Financial Studies

CAO code: DN230

## Sample pathway for a degree in Actuarial & Financial Studies \*



YEAR 1

### ENGAGE WITH THE PRINCIPLES

#### MATHEMATICS

Topics include:

- ▶ Linear Algebra in the Mathematical and Physical Sciences
- ▶ Numbers & Functions
- ▶ Calculus in the Mathematical and Physical Sciences
- ▶ Statistical Modelling

#### COMPUTER SCIENCE

Topics include:

- ▶ Introduction to Programming

#### BUSINESS

Topics include:

- ▶ Principles of Microeconomics
- ▶ Principles of Macroeconomics
- ▶ Financial Accounting

- ▶ Two Elective modules

YEAR 2

### CHOOSE YOUR SUBJECTS

#### ACTUARIAL & FINANCIAL STUDIES

Topics include:

- ▶ Principles of Finance
- ▶ Linear Models
- ▶ Analytics Modelling

- ▶ Financial & Actuarial Mathematics
- ▶ Probability Theory
- ▶ Inferential Statistics

- ▶ 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

### FOCUS ON YOUR CHOSEN SUBJECT

#### ACTUARIAL & FINANCIAL STUDIES – Topics include:

- ▶ Advanced Corporate Finance
- ▶ Models – Stochastic Models
- ▶ Time Series Analysis
- ▶ Models – Survival

- ▶ Information Management for Actuaries
- ▶ BAFS Professional Work Placement (at least 6 months)

- ▶ One Elective module

YEAR 4

### REFINE YOUR KNOWLEDGE

#### ACTUARIAL & FINANCIAL STUDIES – Topics include:

- ▶ Actuarial Risk Management
- ▶ Actuarial Statistics

- ▶ Financial Economics
- ▶ Actuarial Mathematics

- ▶ One Elective Module
- ▶ One Option

## BAFS (Honours) Actuarial and Financial Studies

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

\*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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