

BSC (HONS) (RISK AND ACTUARIAL STUDIES)

Overview

Status: Active

National Framework Of Qualifications (NFQ) Level: 8

NFQ Award Class: Major Award

Duration Full Time: 4 Academic Year(s)

Total Credits: 240

Delivery Method: In-Person

Connected Curriculum:

- Inter-and Transdisciplinary
- Research Based Teaching
- Sustainability

Sustainable Development Goals (SDGs):

- Quality Education
- Decent Work and Economic Growth
- Industry, Innovation, and Infrastructure
- Partnerships to Achieve SDGs

Graduate Attributes:

- Digitally Fluent
- Independent and creative thinker

Participating External Partners:

- BTBU - Beijing Technology and Business University

Type of Arrangement:

- Dual Degree

Work-Integrated Learning (Including Placement):

No

(Dual Degree)

This is a four year honours degree programme delivered in partnership with Beijing Technology and Business University (BTBU) whom University College Cork has signed a bilateral agreement under statute 263 of the National University of Ireland. This programme leads to a dual degree which is awarded independently from both institutions. The programme comprises 240 credits. Students will study for two years at a BTBU, taking modules to the equivalent of 120 credits (or ECTS equivalent) and for two years at University College Cork, taking modules to the value of 60 credits in each of Third and Fourth Year. When studying at UCC a student may not register for more than 60 credits in any one academic year.

First Year - Risk and Actuarial Studies

This year is spent pursuing an approved course of study at a BTBU with whom UCC has a bilateral agreement. Students take the following core modules to the value of **60** credits (or ECTS equivalent).

Second Year - Risk and Actuarial Studies

This year is spent pursuing an approved course of study at a BTBU with whom UCC has a bilateral agreement. Students take the following core modules to the value of **60** credits (or ECTS equivalent).

Students entering Year 3 of the programme at UCC will have taken and passed, inter alia, modules broadly equivalent to the relevant parts of the following UCC modules as part of their Year 1 & Year 2 studies at BTBU:

UCC Module Code (ECTS Credits)	UCC Module Name	BTBU Equivalent Module
AM1053 (5 credits)	Introduction to Mathematical Modelling	SCI1C4S002
MA1058 (5 credits)	Introduction to Linear Algebra	SCI1C4B004 & SCI1C4B005
MA1059 (5 credits)	Calculus	SCI1C4B001
MA1060 (5 credits)	Introduction to Analysis	SCI1C4B001
MA2051 (5 credits)	Mathematical Analysis 1	SCI1C4B002
MA2054 (5 credits)	Ordinary Differential Equations	SCI1C3B007
MA2055 (5 credits)	Linear Algebra	SCI1C4B004 & SCI1C4B005
MA2071 (5 credits)	Multivariable Calculus	SCI1C4B003
ST1051 (5 credits) & ST2051 (5 credits)	Introduction to Probability & Statistics	SCI1C4B006 & SCI1C3D001

Third Year - Risk and Actuarial Studies

To be admitted to the Third University Examination in Risk and Actuarial Studies a student must have satisfactorily attended modules amounting to **60** credits comprising core modules to the value of **55** credits, and elective modules to the value of **5** credits.

Fourth Year - Risk and Actuarial Studies

To be admitted to the Fourth University Examination in Risk and Actuarial Studies a student must have satisfactorily attended modules to the value of **60** credits comprising core modules to the value of **25** credits, and elective modules to the value of **35** credits.

Note:

1. Any elective module selected in Fourth Year must not have been taken in any previous year.
2. Students are also encouraged to consult the University's Book of Modules, 2023/2024, to be clear on the prerequisites required for each Fourth Year elective.

Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p.).