

## FACULTY OF SCIENCE AND HEALTH

### Programme Regulations 2022 - 2023

**Programme Title** BSc in Actuarial Mathematics

**Programme Code** ACM

**Offered on a full-time or part-time basis** Full-time

**Note:** Programme Regulations should be read in conjunction with Marks and Standards which can be found at <https://www.dcu.ie/ovpaa/Policies-and-Regulations.shtml>

#### 1. Programme Specific Rules and Requirements

##### 1.1 Calculation for the Award Classification

The calculation of the final year award classification includes contributions from previous years' results as follows:

<i>Year/Subject contribution</i>	<i>Contribution to the award classification</i>
Year 2	25%
Year 3	15%
Year 4	60%

##### 1.2 Module Calculation

There are modules on this programme where the module mark will be calculated as the greater of (a) the weighted average of the continuous assessment percentage mark and the terminal examination percentage mark or (b) the terminal examination mark.

These modules are listed below:

<i>Module Code</i>	<i>Module Title</i>
MS103	Linear Mathematics I
MS104	Linear Mathematics II
MS113	Integral Calculus
MS114	Sequences and Series
MS205	Calculus of Several Variables

MS217	Linear Algebra
MS231	Analysis 2
MS211	Introduction to Differential Equations
MS232	Probability II
MS408	Probability and Finance II (Intermediate)
MS437	Probability and Finance I (Intermediate)
MS434	Optimisation

## 2. Derogations from Marks and Standards

This programme is fully accredited by the Institute and Faculty of Actuaries, UK. A minimum of 40% must be achieved in both the examination and continuous assessment elements for an overall pass in the following modules:

<i>Module Code</i>	<i>Module Title</i>
MS117	Probability I
MS226	Statistics I
MS228	Statistics II
MS318	Financial Mathematics
MS338	Actuarial Modelling
MS349	Financial and Actuarial Models
MS427	Financial Economics I
MS430	Financial Economics II
MS424	Life Contingencies
MS447	Time Series (Intermediate)
MS455	Simulation for Finance

## 3. Progression

### 3.1 Credits for progression

Students must have successfully completed a minimum of 60 credits in a study period in order to progress to the next study period.

Students must successfully complete a minimum of 62.5 credits in Year 4 to be awarded the BSc in Actuarial Mathematics.

### 3.2 Carrying of modules

Students will not be permitted to carry modules under any circumstances.

## 4. Compensation

Compensation may apply, within the regulations specified in Marks and Standards, to all modules except the following:

<i>Module Code</i>	<i>Module Title</i>
EF116	Introduction to Microeconomics
EF117	Introduction to Macroeconomics
MS117	Probability 1
MS226	Statistics I
AC316	Accounting 1
MS228	Statistics II
EF316	Accounting 2
MS308	Stochastic Modelling
MS318	Financial Mathematics
MS338	Actuarial Modelling I
MS349	Financial and Actuarial Models
IN314	INTRA ACM
MS427	Financial Economics I
MS430	Financial Economics II
MS447	Time Series (Intermediate)
MS424	Life Contingencies
MS455	Simulation for Finance

## 5. Resit Categories

The resit categories of modules on this programme and an explanation of those categories can be found at:

[https://www101.dcu.ie/registry/module\\_contentsphp?function=4&programme=ACM&yr=2023](https://www101.dcu.ie/registry/module_contentsphp?function=4&programme=ACM&yr=2023)

## 6. Repeat Arrangements

The following modules will only be made available to repeat students registering in 2022-2023, who previously deferred or did not successfully complete the same in 2021-2022.

MS449	Risk Theory
CA167	Programming for Mathematics

Where students enrolled in the academic year 2021/2022 are required to repeat failed or deferred modules in the academic year 2022/2023, they take the following modules listed below:

<b>Deactivated Modules</b>	<b>Module Title</b>	<b>Module repeat/deferred students takes</b>
MS428	Financial Economics II	MS430
MS448	Life Contingencies	MS424
EF113	Introduction to Microeconomics	EF116
EF114	Introduction to Macroeconomics	EF117

Year 4 repeat students in 2022-2023 who must register for alternate module MS430 are permitted to accumulate additional credits up to 67.5.