

**The Objective** of this four year, full-time degree is to produce graduates with the ability to apply Mathematics, Computing and Statistics to real-life problems in areas such as Engineering, Banking, Insurance and Operations Research.

## Programme Summary

In the first four semesters, the aim of the programme is to provide the student with a broad introduction to the main branches of mathematics and its applications, while the final two years concentrate on three focused areas of applied maths, applied algebra, numerical analysis and modelling with differential equations.

Relevant Work Experience through DCU's work experience programme INTRA (Integrated TRaining) is a central feature of education at DCU and an integral part of most undergraduate and some postgraduate degree programmes.

**Students from the BSc Applicable Mathematics are required to complete an eight-month INTRA placement at the end of the third academic year, from February to September inclusive.**

### Work Skills

- Programming in C++
- Familiarity with Matlab
- Mathematical & Statistical Modelling

### Work Areas

- Life Assurance
- Software Development
- Banking and Financial Analysis
- Consultancy
- Statistical Analysis

### Student Availability

Students are available for interview from October onwards. Please post vacancies on the *INTRA* online website at [www.intra.dcu.ie](http://www.intra.dcu.ie), or send details to:

*INTRA* Unit, Student Support & Development,  
Dublin City University,  
Glasnevin, Dublin 9, Ireland.  
Phone: 00 353 1 700 5514  
Fax: 00 353 1 700 5505  
Website: [www.intra.dcu.ie](http://www.intra.dcu.ie)



## B.Sc. Applicable Mathematics

Year 1		Year 2		Year 3		Year 4	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
Computing for Mathematics	Computing for Mathematics	Statistics I	Statistics II	Modern Analysis	I N T R A	Dynamical Systems	Mathematical Biology
Calculus	Analysis I	Calculus of Several Variables	Complex Analysis	Algebra		Numerical Solution of Partial Differential Equations	Optimisation
Introduction to Economics	Introduction to Economics II	Analysis II	Differential Equations	Mechanics		Project	
Linear Mathematics	Linear Mathematics II	Numerical Methods	Mathematics of Finance: An Introduction	Stochastic Modelling			
The Mathematical Experience	Probability I	Linear Algebra	Probability II	Option: Treasury Mathematics		Partial Differential Equations	
			Accounting I		Communications Theory		