

# PROFESSIONAL CERTIFICATE IN BIostatISTICS



**School of Public Health, Physiotherapy and Sports Science**  
<https://www.ucd.ie/phpss/study/>

Quantitative skills are essential for the conduct of biomedical research - from Principal Investigators, to PhD students such skills permit objective evaluation of hypotheses.

Drawing on extensive faculty experience in Biostatistics, we are pleased to offer a Professional Certificate in Biostatistics (15 ECTS) comprising 3 modules with a focus on data management and computational skills in the IBM SPSS package, and on biostatistics methodologies ranging from basic probability, to two-group tests, to regression modelling and survival analysis.

## ***Semester 1 Sept—Dec***

### **Data Management and Statistics with SPSS**

Understanding and managing data; describing, visualising and exploring data in IBM SPSS

### **Biostatistics I**

Descriptive statistics, sampling variation, simple parametric and non-parametric tests

## ***Semester 2 Jan—May***

### **Biostatistics II**

Linear and logistic regression; survival analysis; analysis of repeated measures

## ***Information for Prospective Students:***

- ⇒ This course is suitable for all: from Postgraduate students beginning a research career to Postdoctoral or faculty researchers wishing to strengthen their quantitative skills
- ⇒ Researchers in any field will benefit, however examples are mainly drawn from biomedical research
- ⇒ Each module comprises 2-3 contact hours per week on the UCD Belfield campus over the 12-week semesters, suiting part-time learners

**NFQ 9, UCD level 4 Professional Certificate**

**Duration is 1 year, and all 3 modules must be completed**

For more information contact:

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For fee information see [ucd.ie/fees](https://www.ucd.ie/fees)

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