**COURSE DETAILS**

**Course Code:** F79MA  
**Full Course Title:** Statistical Models A  
**SCQF Level:** 9  
**SCAF Credits:** 15  
**Available as Elective:** No

**DELIVERY LEVEL**

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**Additional Information:**

**COURSE AIMS**

In this module students will

- develop an understanding of the different methodologies of statistical inference  
- develop skills in practical, computer-based estimation and inference  
- develop report writing and presentation skill  
- develop independent research skills

**LEARNING OUTCOMES – SUBJECT MASTERY**

After studying this module, students should be able to:

Understand the three main approaches to statistical inference and the relations between them, and to apply appropriate statistical methodology in a practical application.

**LEARNING OUTCOMES – PERSONAL ABILITIES**

At the end of the module, students should be able to:

- Demonstrate the ability to learn independently  
- Manage time, work to deadlines, and prioritise workloads  
- Use an appropriate computer package to process data  
- Present results in a way which demonstrates that they have understood the technical and broader issues of statistical inference

**SYLLABUS**

- Inference and decision making
F79MA Statistical Models A

- Parameter estimation
- Likelihood
- Bayesian estimation and credibility theory
- Hypothesis testing
- Project preparation
- Applied statistical project

**COURSE RELATIONSHIPS**

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**LOCATION AND ASSESSMENT METHODS**

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