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

DELIVERY LEVEL
Undergraduate: Yes
Postgraduate Taught: Yes
Postgraduate Research: No

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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