University of Dundee

Mathematics Division


Organisation

The MA22004 module runs for 11 teaching weeks in the second semester, and is worth 20 SCQF credits (equal to 10 ECTS points).
All organisation and teaching will be carried out by

Dr Niall Dodds
Mathematics Division
Room G5,
Fulton Building
Tel: 01382 384470
email: ndodds@maths.dundee.ac.uk

You should make an appointment to see Dr Dodds if you have a problem regarding the course. You may also bring matters of concern about the course to the attention of the Mathematics Division Staff/Student Committee, which meets once each semester. A volunteer from Level 2 Mathematics will act as class representative to sit on the Staff–Student Committee; their name will be posted on BlackBoard.

This module involves 200 hours of student effort, including 55 contact hours.

Timetable

The weekly timetable for the module consists of five 50 minute classes, typically 2 lectures, 2 workshops and 1 computer laboratory session.

Pre-requisite

In order to take this course you must have passed module MA12003, or an equivalent qualification.

Syllabus

Sampling Distributions: Mean and standard deviation of samples, Shape of sampling distributions.

Hypothesis tests: t-tests, Inferences, Confidence intervals, Chi-square tests.

Linear Regression: Least squares, Assessing usefulness of a model, Using a model.

R software package: Appropriate use of computational software to carry out calculations relevant to sampling.

Assessment

The overall assessment will be weighted 40% for Coursework and 60% for a two-hour unseen Degree Examination. The Coursework will consist of 2 class tests and 4 assignments. The assessment weightings are shown in the table below:
Assignment deadlines as well as Class Test dates will be posted on MyDundee and announcements made in the class hours.

To pass this module in April/May it is necessary to gain at least 40% in the overall assessment and obtain at least 30% in the Degree Examination. and obtain at least 30% overall in the coursework.

For those who fail the module due to a low exam mark in April/May there will be a two-hour resit examination paper at the July Examination diet. To pass this module in July it is usually necessary to gain at least 40% in the July Examination.

Your Commitment

You should attend all classes except on medical grounds or with the special permission of the lecturer concerned. If you are unable to attend the degree examination or complete elements of the coursework on time then you should inform the Module Leader and submit a medical certificate. Medical certificates should be submitted to your School Office as soon as possible after the absence.

You must also submit a Mitigating Circumstances form to explain which aspects of assessment have been affected by your absence.

A Medical Certificate will not be taken into account unless a Mitigating Circumstances form that refers to the medical certificate has also been completed.

Approved Calculators

The only types of calculators that have been approved for use in assessments in the School of Engineering, Physics and Mathematics are the Casio FX83 and the Casio FX85.

Study Support

If you are having difficulty with the course you are encouraged to seek help at an early stage by making an appointment to see your lecturer. You may also obtain additional help from the Maths Base (see BlackBoard for details).

Feedback

At the end of each section of the module you will be asked to complete a confidential questionnaire regarding the content and presentation of the module. This is an important element in the University’s Academic Standards procedures.

Recommended Books

TBC