Mathematics and Statistics (COMP0011)

Description

Aims:
To provide a grounding in Mathematics and Statistics most relevant to a Computer Science undergraduate degree.

Learning outcomes:
On successful completion of the module, a student will be able to apply concepts in mathematics and statistics to frame problems, and reason about them. Specific topics are detailed in the contents section.

Content:

Mathematics:
- Trig, exp and log;
- Polynomials;
- Limits and continuity;
- Differential calculus of one and two variables;
- Integration;
- Series summation and power series;
- Complex numbers;
- Vector spaces;
- Matrices.

Statistics:
- Probability, descriptive statistics;
- Discrete random variables;
- Continuous random variables;
- Statistical estimation;
- Hypothesis testing.

Requisites:
In order to be eligible to select this module, a student must be registered on a programme for which it is a formally-approved option or elective choice.

Key information

Year: 2019/20
Credit value: 15 (150 study hours)
Delivery: UG L5, Campus-based
Reading List: View on UCL website
Tutor: Dr Lewis Griffin
Term: Terms 1 and 2
Timetable: View on UCL website

Assessment

- Written examination (main exam period): 80%
- Open-book examination (departmentally managed): 5%
- Open-book examination (departmentally managed): 5%
- Written examination (departmentally managed): 10%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk

Disclaimer: All information correct as of June 2019. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.