

**MA1061 Probability**

**Academic Year:** 2019/0  
**Module Level:** Year 1  
**Scheme:** UG  
**Department:** Mathematics  
**Credits:** 10

**Student Workload (hours)**

Lectures  
 Seminars  
 Practical Classes & Workshops  
 Tutorials  
 Fieldwork  
 Project Supervision  
 Guided Independent Study  
 Demonstration  
 Supervised time in studio/workshop  
 Work Based Learning  
 Placement  
 Year Abroad  
 Total Module Hours

**Period:** Academic Year  
**Occurrence:** E  
**Coordinator:** Bo Wang  
**Mark Scheme:** UG Module Mark Scheme

No.	Assessment Description	Weight %	Qual Mark	Exam Hours	Ass't Group	Alt Reass't
001	Coursework	20				
002	Class Test	20				
003	Examination (Final)	60		2		
103	Examination (Final)	100		2		Y

**Intended Learning Outcomes**

- Define basic concepts in probability and calculate probabilities, including those involving independence and conditional probabilities
- Explain what is meant by a random variable, discrete and continuous, and define the main functions of a random variable
- Describe and use Binomial, Poisson, Geometric and Normal distributions
- Explain the content and consequences of the DeMoivre-Laplace and Central Limit Theorems and apply to problems

**Teaching and Learning Methods**

Lectures, feedback lectures, weekly feedback classes for guidance with examples sheets, surgeries.

**Assessment Methods**

Exam, test, coursework

**Pre-Requisites**

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**Co-Requisites**

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**Excluded Combinations**

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**Guided Independent Study: Indicative Activities**

Directed reading, review of lecture recordings and lecture notes, practice for the test, solving problem sheets/workbooks, and preparing/revising for class test and examination.