BSc (Hons)
Mathematics & Statistics

The BSc (Hons) Mathematics and Statistics is a programme of study that covers topics across the whole range of mathematical areas and statistical fields, with opportunity to specialise further on statistics. Our curriculum is built on a variety of themes, which run through all academic years of the programme; mathematical methods, statistical methods, analysis, probability, algebra, mechanics, computational mathematics, computational statistics and data analysis.

A variety of innovative teaching and assessment methods challenge the students to apply their mathematical and statistical knowledge and skills to real-world problems. Moreover, the programme develops communication skills, such as delivering oral presentations and designing conference style posters. The latter years of the programme have a number of specialist optional modules that will enable students to focus their degree towards their personal interests.

Overall, the BSc (Hons) Mathematics and Statistics programme provides students with sufficient in-depth knowledge to enable them to embark on further studies or apply that knowledge in the industry. Graduates of mathematical sciences can be employed in several areas, such as education, biology, economics, engineering, genetics, marketing, medicine, psychology, public health and sports, and work as statisticians, data analysts, risk analysts, biostatisticians and quality analysts, among many.

The BSc (Hons) Mathematics and Statistics programme is accredited by the Institute of Mathematics and its Applications (IMA), the UK's professional and learned society for qualified and practising mathematicians.

Institute of
mathematics
& its applications

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THE **BRITISH UNIVERSITY** OF CYPRUS

12-14 University Avenue, Pyla, 7080, Larnaca, Cyprus
T. +357 24 69 4000 I F. +357 24 81 2120 I E. info@uclancyprus.ac.cy

BSc (Hons) Mathematics & Statistics

YEAR 1	S	E
COMPULSORY		
Discrete Mathematics	YL	10
From Geometry into Algebra	YL	10
Functions, Vectors & Calculus	YL	10
Introduction to Probability & Statistics	YL	10
English Language I	1	10
English Language II	2	10

YEAR 2	S	E
COMPULSORY		
Introduction to Algebra & Linear Algebra	YL	10
Introduction to Real Analysis	YL	10
Introduction to Mechanics	YL	10
Computational Mathematics	YL	10
Theory of Probability & Statistics	YL	10
OPTIONAL		
Academic Writing	YL	10
Study & Research Skills	YL	10
History of Mathematics	YL	10

YEAR 3	S	E
COMPULSORY		
Ordinary Differential Equations	YL	10
Further Real Analysis	YL	10
Numerical Analysis	YL	10
Linear Models	YL	10
OPTIONAL		
Vector Calculus	YL	10
Nonparametric Statistics	1	5
Survey Methodology	2	5
Algebraic Structures	YL	10
Cryptology	YL	10
University elective	YL	5/10

YEAR 4	S	E
COMPULSORY		
Complex Analysis	YL	10
Stochastic Processes	YL	10
Computational Statistics & Data Analysis	YL	10
OPTIONAL		
Fields & Galois Theory	YL	10
PDEs & Integral Transforms	YL	10
Time Series	YL	10
Multivariate Analysis	YL	10
Mathematics Project	YL	10
Biostatistics & Epidemiology	1	5
Financial Statistics	1	5
Operational Research	2	10
Actuarial Mathematics & Statistics	2	5
University Elective	YL	5/10

SCHOLARSHIPS AVAILABLE

S: SEMESTER / E: ECTS / YL: YEAR LONG

The University reserves the right to make amendments to programmes in order to improve the quality of learning content and outcomes.

CAREER OPTIONS
Mathematics offers a diverse and rewarding range of careers. Examples include working in education, academic research, consultancies, accountancy, financial services, insurance companies, IT and Computing, telecommunications, and healthcare to name but a few sectors. For further information you can visit **www.math-scareers.org.uk** (managedand maintained by the Institute of Mathematics and its Applications).

These are valuable contributions to the Cypriot economy and equip both local and international students to compete in the global employment market. Mathematicians and Statisticians are ranked by **www.careercast.com** as some of the best jobs based on criteria including income, job outlook, work environment and stress. Other highly ranked jobs including those of a data scientist and of an actuary are highly mathematical and attract many people with a very strong mathematical background.

PROFESSIONAL ACCREDITATION
The BSc (Hons) Mathematics and Statistics programme is accredited by the Institute of Mathematics and its Applications (IMA), the UK's professional and learned society for qualified and practising mathematicians. The programme will meet the educational requirements of the Chartered Mathematician designation, awarded by the IMA, when it is followed by subsequent training and experience in employment to obtain equivalent competences to those specified by the UK Quality Assurance Agency (QAA) for taught master's degrees.

ENTRY REQUIREMENTS
The minimum requirements are:
> Apolytirion or High School Leaving Certificate, or 96 A' Level points (new Tariff system) in relevant subjects.
> Proof of English Language knowledge to a score of at least IELTS 5.5, or other equivalent according to the Common European Framework of Reference for Languages (CEFR).

✉ **admissions@uclancyprus.ac.cy**
☎ **+357 24 69 40 00**