



University of
Central Lancashire
UCLan Cyprus

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.

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YEAR 1

MODULES	SEMESTER	ECTS
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

MODULES	SEMESTER	ECTS
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

MODULES	SEMESTER	ECTS
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

COMPULSORY		
Complex Analysis	YL	10
Stochastic Processes	YL	10
Computational Statistics & Data Analysis	YL	10
Time Series OR	YL	10
Multivariate Analysis	YL	10
OPTIONAL		
Fields & Galois Theory	YL	10
PDEs & Integral Transforms	YL	10
Time Series OR	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

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.mathscareers.org.uk (managed and 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.

ENTRY REQUIREMENTS

The minimum requirements are:

- > A score of 16.5 in the Apolytirion including subjects areas such as Mathematics, Science or Technology; or 80 A' Level points (new Tariff system) in subject areas such as Mathematics, Science or Technology; or another international equivalent.
- > Internationally Recognised Certificate of English Language knowledge equivalent to B1-B2 Level of the Common European Framework.



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SCHOLARSHIPS AVAILABLE

