Introduction

The main objective of the Department of Mathematics and Statistics is to promote mathematical sciences through scientific research and teaching. To achieve this objective, competent and highly-trained scientists are needed, since they are necessary for the further cultural and economic development of Cyprus, as well as for the promotion and support of research.

Offering high-quality curricula, both in Mathematics and Statistics at undergraduate and postgraduate levels, as well as cooperating with other universities and research centres are important steps towards achieving the Department’s objective. The teaching and research interests of the Department fall into various branches in Pure Mathematics, Applied Mathematics and Probability/Statistics. The academic staff of the Department has long-standing collaborations with many universities and research centres around the world.

UNDERGRADUATE Studies

The Department of Mathematics and Statistics offers the following undergraduate programmes of studies:

- B.Sc. in Mathematics and Statistics
  - with specialisation in Applied Mathematics
  - with specialisation in Pure Mathematics
  - with specialisation in Probability/Statistics

The courses of the undergraduate programme of studies are offered at two levels and in six groups, which correspond to the following branches of Mathematics: Analysis, Algebra, Geometry, Probability-Statistics, Numerical Analysis and Applied Mathematics.

POSTGRADUATE Studies

The Department offers the following Master's Degree and Ph.D. programmes:

**MASTER Diploma Specialisation**

- M.Sc. in Mathematical Sciences
- M.Sc. in Data Science

**DOCTORAL Diploma**

- Ph.D. in Mathematics
  - with specialisation in Applied Mathematics
- Ph.D. in Statistics
  - with specialisation in Pure Mathematics
Why Mathematics

- It cultivates methodical, critical thinking and analytical skills.
- It lays the foundation for all pure and applied sciences, while it contributes to the development of other disciplines such as economics, operations research, actuarial science, insurance and cryptography.
- It is a tool for addressing research problems in modern fields, such as biotechnology, biomedicine, robotics, aeronautics, climatology, epidemiology, environmental science, seismology etc.

STUDENT EXPERIENCES/ACTIVITIES

- Internships in public and private institutions.
- Public lectures by renowned Cypriot and foreign scientists/attendance at and participation in international and local scientific conferences.
- Possibility to participate in the Erasmus+ /Studies and Erasmus+ /Placement programmes.

ERASMUS +

Students of the Department of Mathematics and Statistics have the opportunity to participate for one or two semesters in the educational ERASMUS+ Programme at universities in Europe. Within the framework of the Erasmus+ Programme, the Department has concluded student exchange agreements with some of the most important universities in Greece, Germany, Spain, Italy, France, Poland, Austria, and Sweden. Students participating in the ERASMUS+ Programme are reimbursed for their travel expenses and receive a monthly grant. They also have the opportunity to study at other international universities in third countries through the Erasmus+ International Programme.

FUTURE EMPLOYMENT

The Department of Mathematics and Statistics provides its graduates with excellent training, enabling them to register in the Appointed Teachers List, so as to get employed in the sector of Secondary General Education in Cyprus and Greece. In addition, the Department’s graduates may get employed in:

- The educational sector (Secondary or Higher Education, upon completion of doctoral studies).
- Research institutions.
- Public Services (Statistical Service, Institute for Agricultural Service, etc.).
- Banks, finance companies, insurance companies, statistical analysis companies.
- Telecommunication organisations, the Cyprus Electricity Authority and IT and technology companies.

Our graduates may further continue and deepen their specialisation at postgraduate level, by obtaining a Master’s or a Ph.D. degree. Graduates of the Department are currently employed in research centres and universities in Europe and America.
I am a fourth-year student in the Department of Mathematics and Statistics, majoring in Applied Mathematics. Throughout my studies I have acquired important, diverse knowledge and experience in various mathematical topics, which are essential for my professional career. Moreover, the variety of courses offered gives students the opportunity to attend courses which help them deepen their knowledge in the field of their interest. I have had the opportunity to work with high-calibre academic staff members who have provided me with the necessary skills for my scientific development through their frequent, direct feedback. The scientifically-trained academic staff members not only lay the foundations for students’ future studies, but they also enhance their intellectual development through cultivating their critical and logical thinking. Students are also equipped with the necessary skills for problem-solving in the field of Mathematics.

Upon completion of my undergraduate studies, I will be able to move on to pursue a specialisation at postgraduate level. Furthermore, graduates of the Department of Mathematics and Statistics obtain a high-quality degree and become competitive in the workplace, since they can be employed both in the education sector and in various other sectors, such as finance companies and institutions. Mathematics is not just a set of theories, concepts and symbols; it is part of our everyday lives.

ANDREA NIKOLETTI, Fourth-Year Student
Student/Graduate Testimonials

DR YIOLANDA DAMIANOU, Doctoral Graduate
Senior Officer - Model Validation Department - Risk Management Unit, at Hellenic Bank

I am a Ph.D. graduate of the Department of Mathematics and Statistics at the University of Cyprus. During my studies, I had the opportunity to work with distinguished academic staff members and researchers, and I have learned to set goals and work methodically to achieve them. The skills and knowledge I have acquired have equipped me with the confidence needed to face any challenges and difficulties I may encounter in demanding workplaces, as well as to keep learning and be able to adapt to an evolving work environment. I am grateful for the education the Department of Mathematics and Statistics has provided me with.

DR ANDREAS ARTEMIOU
B.Sc. in Mathematics and Statistics
Senior Lecturer in Statistics, School of Mathematics, Cardiff University

The Department of Mathematics and Statistics at the University of Cyprus has been a reference point for my studies, as it has provided me with a solid foundation for deepening my knowledge in Mathematics. The excellent curriculum, along with the friendly approach of the academic staff have filled my four years of studies with valuable experiences and interesting topics to study. Open communication with academic staff members has given me the opportunity to take my first steps in research during my undergraduate studies. My studies at the Department have paved the way for continuing my studies at doctoral level in the Department of Statistics at Pennsylvania State University. As an academic now, and having several years of experience in academia, I believe that the Department is highly competitive compared to corresponding university departments abroad, and is an excellent choice for any student interested in Mathematics.

DEMOSTHENIS DEMOSTHENOUS
B.Sc. in Mathematics and Statistics,
Consulting Actuary at Milliman, Cyprus

I completed my studies at the University of Cyprus, having benefited from courses in Pure and Applied Mathematics, as well as from elective courses from other departments. The direct contact and communication we had with the academic staff members, as well as their willingness to push us towards acquiring knowledge and problem-solving skills, have contributed significantly to my development. The solid foundations acquired in the field of Mathematics have helped me develop substantial critical thinking and capability, which proved to be fundamentally useful for me in the field of actuarial studies. In my opinion, even if someone ends up pursuing a career in another field, studies in pure sciences lay the foundation for one’s development into a well-rounded and independent-minded professional.
Looking back at when the end of my undergraduate studies in the Department of Mathematics and Statistics at the University of Cyprus was approaching, I realise how helpful they have been for my subsequent career. The high-calibre academic staff members, the excellent training practices, and the valuable experiences gained from the interaction with my fellow students have provided me with a solid foundation of resources, knowledge and skills for obtaining my Master’s and Doctoral Degrees at the University of Warwick. The experiences I have gained from my research work, as well as my long-term participation in conferences in various countries, come to further reinforce my opinion that studying in the Department of Mathematics and Statistics is the first step towards quality education and critical thinking, which can lead to success in the modern marathon of knowledge for a professional and/or academic career.

MARIA CHRISTODOULOU, Fourth-Year Student

I feel that studying Mathematics has helped me develop critical, analytical and abstract thinking, and has provided me with a wide range of knowledge, giving me the opportunity to pursue postgraduate studies in various fields and, thus, get employed in different sectors. Communication between students and academic staff members within the Department is effective, since the latter are always willing to help students perform to their best potential. The Department’s research areas cover various branches of Pure and Applied Mathematics and Statistics, which is reflected in the courses offered. Thus, students are given the opportunity to delve deeper into their area of research, both at undergraduate and postgraduate levels.

I am a fourth-year student of the Department of Mathematics and Statistics and I can confidently say that throughout my studies at the University of Cyprus I have gained a lot. To start with, as regards the teaching part, I have been equipped with the necessary skills so as to be able to compete with students from universities worldwide. The small audiences, the direct contact between students and academic staff members, and the freedom to choose direction courses are important advantages of the curriculum that have helped me to better consolidate, and subsequently delve into, some aspects of Mathematics. It is worth mentioning that by posing challenging questions to students, while encouraging them to ask questions themselves, academic staff members made the lectures more enjoyable and interactive. Moreover, I believe that the relationship between students and their academic advisors is highly important, regarding both enrolment issues and students’ subsequent studies. Finally, I believe that the academic staff of the Department of Mathematics and Statistics consists of distinguished scientists who are enthusiastic about their subject and are always willing to respond to any questions, as well as to help students concerning both their research interests and professional careers.

CONTACT
http://ucy.ac.cy/mas/el

DEPARTMENT OF MATHEMATICS AND STATISTICS
UNIVERSITY OF CYPRUS
P.C. 20537, 1678, Nicosia, CYPRUS
Email: commas@ucy.ac.cy
Telephone: + 357 22 892600