



Master of Science in Mathematical Finance and Risk Analytics



Strathmore University
Institute of Mathematical
Sciences

PROGRAMME OVERVIEW

The pace of change in the financial sector has never been faster than it is today. Rapid innovation and interdependency in the field of investment, risk management and financial product development has necessitated the need for individuals with adept quantitative skills and an advanced understanding of the theoretical concepts underlying financial markets today.

The Master of Science in Mathematical Finance and Risk Analytics offered, provides a deep interaction and contribution from fields such as Finance, Statistics, Computing and Applied Mathematics. The program provides the fundamental training for a successful graduate who is in or seeking a career in analytical industry practice or related academic research in finance and risk.

CAREERS

The program will prepare students for analytical roles in the finance industry and academic research roles, including but not limited to: Investment Banking, Quantitative Risk Management and Securities Trading. In Kenya, graduates with an MSc Mathematical Finance can work as analysts in Investment Banks, Insurance, Banking, Regulators such as the Capital Markets Authority, Insurance Regulatory Authority, Kenya Revenue Authority, which require quantitative analysts in finance, pricing and risk management.

Student Testimonial

"I feel the program is extremely rewarding for a prospective student interested in developing an in-depth understanding of finance. By focusing on practical applications, the program sets a good foundation for independent research into emerging trends. While the subject matter of the program is finance, the analytical approaches applied have extensive applications, particularly in contexts that require innovative approaches to problem solving. Students are encouraged to pursue creative applications of mathematical tools in doing their research theses, which provides a good foundation for advanced graduate studies."

Mr. Kigen Chelimo,
Investment Analyst

MODE OF STUDY

Evening Program: 5:30 pm - 8:30 pm on weekdays

Duration: 2 years

Intake: May and September

HOW TO APPLY

Applications can be done through **admissions@strathmore.edu** or **+254 703 034032**

WHY STUDY IN STRATHMORE UNIVERSITY

- 1. Global exposure/ international outlook:** Strathmore's international faculty and partners, global alumni network and diverse student body connect you with a world of opportunities.
- 2. Academic rigour:** Through our innovative research and learning approach, you will enhance your capacity to manage and solve business challenges.
- 3. People-focused:** We believe that putting people at the center of decisions is essential to sustainable business growth and outstanding business education.
- 4. Teaching staff:** Our dedicated teaching staff are active professionals who will bring you face-to-face with real situations. You will learn through:
 - Case studies
 - Innovative teaching
 - Individualized attention and guidance, and
 - Small class groups.
- 5. Timely completion of studies:** Students are assured of completion of an uninterrupted learning period of 2 years.
- 6. World-class facilities:** Strathmore has avant-garde architecture that has been designed and built uniquely and in compliance with energy conservation requirements. This ensures delivery of a rich and holistic learning experience for its students.

EXPECTED OUTCOMES

- 1. Competitive skills:** Strathmore aims to help you develop leadership skills, which will be useful in the world of work. Your investment will have a high return in terms of your competitive advantage.
- 2. Realistic approach:** You will adopt a reflective, analytical, participative approach to education and consequently to your career.
- 3. Great counsel:** Our lecturers and coaches are experts in their respective fields and they will be a resource to help you develop a new perspective and see new opportunities.
- 4. Powerful networks:** You will learn from and alongside diverse, talented classmates as you share a transformative journey together. As such, you will develop a network of friends and contacts that will last a lifetime.
- 5. Exceptional learning experience:** You will acquire skills to take on any challenge and think critically backed by solid fundamental knowledge. As a result, you will gain hands-on-experience to tackle real life.

ENTRY REQUIREMENTS

The following are eligible for admission into the MSc. Mathematical Finance:

- Holders of First Class or Upper Second-Class Honours degrees, from recognized universities, in Mathematics or Statistics or Mathematical Finance, or Financial Engineering or a related discipline; OR
- Holders of Lower Second Class degrees in Mathematics or a related discipline plus Postgraduate Diplomas in relevant areas; OR with a minimum of two years of working experience.
- You must have had at least a C+ mean grade at KCSE or its equivalent.

Admission Office, Strathmore University
Ole Sangale Road, Madaraka Estate,
P.O.Box 59857-00200 City Square, Nairobi, Kenya.

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