

# INFO SESSION: M.S. IN MATHEMATICS IN FINANCE

*“Mathematics in Finance is for those committed to launching careers in the financial industry and putting in the work to make it happen.”*

# OUTLINE

- WELCOME
- OVERVIEW OF THE M.S. IN MATHEMATICS  
IN FINANCE AT NYU COURANT
- Q&A
- HOW TO CONTACT & CONNECT WITH US



# PROGRAMS OF STUDY

- **M.S. in Mathematics in Finance**
  - Full-Time
  - Part-Time
- **Dual-Degree Program:** NYU Stern MBA and M.S. in Mathematics in Finance
- **B.A./M.S.** in Mathematics in Finance *(available to NYU undergraduates only)*
- **Non-Degree Study**

*Details about the programs are [available here](#)*

# ACADEMICS

STUDENTS COMPLETE A TOTAL OF 36 POINTS OF COURSEWORK

## CORE

21 points

- Financial Securities and Markets, MATH-GA 2791 (3 points)
- Stochastic Calculus, MATH-GA 2903 (1.5 points)
- Data Science and Data-Driven Modeling, MATH-GA 2070 (1.5 points)
- Dynamic Asset Pricing, MATH-GA 2793 (1.5 points)
- Machine Learning & Computational Statistics, MATH-GA 2071 (1.5 points)
- Scientific Computing, MATH-GA 2043, **OR** Scientific Computing in Finance, MATH-GA 2048 (3 points)
- Risk and Portfolio Management, MATH-GA 2751 (3 points)
- Computing in Finance, MATH-GA 2041 (3 points)
- Project and Presentation, MATH-GA 2755 (3 points)

## ELECTIVES

15 points

## TOTAL

36 points

Full course listing is [available here](#)

# ADMISSIONS

- We require a **high level** of mathematical maturity and focused preparation
- Minimum prerequisites
  - Linear algebra
  - Multivariate calculus
  - Calculus-based probability
  - Computer programming in one language such as Python, C++, Java
- Good communication and team working skills
- Applicants to the part-time program and non-degree studies need to have financial industry experience. For other programs and studies no industry experience necessary

*Details are [available here](#)*

# FULL-TIME & PART-TIME APPLICATION REQUIREMENTS

- ✓ Statement of Purpose
- ✓ Three letters of recommendation
- ✓ One official academic transcript from each post-secondary institution attended
- ✓ Official GRE scores (*note: GMAT not accepted*)
- ✓ TOEFL or IELTS scores for international students (*not required if previous degree(s) were earned at an institution where English is the primary language of instruction*)
- ✓ Video submission
- ✓ CV / resume

# APPLICATION DEADLINES

## **FULL-TIME PROGRAM**

FEBRUARY 8

*Full-time students are accepted for fall admission only and are encouraged to submit their applications before the deadline date*

## **PART-TIME PROGRAM**

AUGUST 1 FOR FALL

DECEMBER 1 FOR SPRING

## **NON-DEGREE**

AUGUST 1 FOR FALL

DECEMBER 1 FOR SPRING

## **DUAL-DEGREE PROGRAM**

FEBRUARY 8 FOR FALL

# OUR OFFICE OF CAREER SERVICES

*(only offered for full-time and BA/MS students)*

## WHAT WE OFFER

- Individual and group sessions with career coaches
- Resume guidance
- Trainings, workshops, and mock interviews focused on careers in quantitative finance and financial data science
- Recruitment events with world-renowned employers
- Alumni panel discussions
- Networking events and meetups
- Resume distribution to financial industry organizations

Read more about [our Office of Career Services here](#)





# WHAT MAKES US STAND APART

- Our curriculum is **one of a kind**
- Our faculty are **renowned mathematicians** as well as **leaders** at the world's most impactful financial institutions
  - Many international quant finance prizes have been awarded to our faculty
  - NYU Courant is **ranked #1** in applied mathematics in the U.S.
- Our network of alums and professionals in the financial industry
- Our career services
  - *Student placement upon graduation is very high (95% average)*

# OUR SUMMER BOOTCAMP

*(only offered for full-time and BA/MS students)*



- Last three weeks of August before courses start
- Topics:
  - Career preparation & training
  - Mathematics review
  - Programming in Python
  - Alumni networking events
  - Employer sessions
  - Industry and career management talks
- Besides being immersive and fun, bootcamp will kick-start your internship search

# WHY A BOOTCAMP?

*(only offered for full-time and BA/MS students)*

- Major banks and other employers in the financial industry **start interviewing for Summer 2025 internship positions as soon as September 2024**
- Review of important topics in mathematics and computer science
- **Immersive & hands-on:** Interview practice sessions, homework reviews, and coding sessions
  - Personalized feedback from career coaches and others to improve your resume, networking messages, personal narrative, and “elevator pitch.” You will get your internship application package ready before the busy semester begins
  - Practice articulating math topics for non-technical interviewers – a situation encountered during interviews
- **Special event:** Alumni networking session, panel discussions, and employer sessions
- Meet your classmates, build connections, and find study-group partners and collaborators

# CONNECT WITH THE MATHFIN COMMUNITY ON LINKEDIN



## PROGRAM PAGE

[M.S. in Mathematics in Finance](#)

## PEOPLE

### Leadership

[Petter Kolm](#), Program Director & Professor

[Jonathan Goodman](#), Program Chair & Professor

### Office of Career Services

[Nancy Ancowitz](#), Director

[Ariane Saney](#), Director

### Bootcamp

[Shizhu Liu](#), Director & Professor

### Academic Affairs

[Michelle Shin](#), Assistant Director

[Katie Lynn](#), Program Administrator



# CONTACT US

## WEBSITE

[M.S. in Mathematics in Finance](#)

## EMAIL

[cims-mathfin-app@nyu.edu](mailto:cims-mathfin-app@nyu.edu)

# A TYPICAL DAY: CAREER WEEK

Monday, August 21, 2023

TIME	SESSION			SPEAKER
8:30 - 10:00 AM ET	<b>Career Workshop 1:</b> Finance Recruiting Inside and Out			Petter
10:00 - 11:30 AM ET	<b>Career Workshop 2:</b> Resume and Cover Letter - <b>Quant Example</b>			Instructor
11:30 - 12:00 PM ET	<b>Wasserman Center Session: Orientation, Registration and Resources</b>			Wasserman
12:00 - 1:00 PM ET	Lunch box (provided)			
	<b>Small group sessions:</b>			Instructor
	<b>Meeting with Career Coach: Resume</b>	<b>Communication Session: Tell me about yourself</b>	<b>Writing time: Polish your resume</b>	TA
1:00 - 1:55 PM	Group 1	Group 3	Group 2	
2:00 - 2:55 PM	Group 2	Group 1	Group 3	
3:00 - 3:55 PM	Group 3	Group 2	Group 1	
4:00 - 5:00 PM			All groups	
6:00 - 7:30 PM ET	<b>Career Workshop 3:</b> Career Management			Instructor
Between time breaks	Individual appointments with TAs			TA
	Individual Appointments with the Wasserman Center			Wasserman

# A TYPICAL DAY: PROGRAMMING WEEK

Monday, August 28, 2023

TIME	SESSION	SPEAKER
8:00 - 9:00 AM ET	CS week day 1 exam	
9:00 - 12:00 AM ET	<b>CS Lecture 1</b>	Instructor
1:00 - 1:30 PM ET	CS Lab 1: understanding and explanation	TA
1:30 - 3:00 PM ET	CS Lab 1: coding time	
3:00 - 5:00 PM ET	CS Lab 1: review and debug	TA
5:30 - 7:00 PM ET	<b>Employer session timeblock</b>	
8:30 - 9:30 PM ET	TA office hours (remote)	TA

# A TYPICAL DAY: MATH WEEK

Friday, August 11, 2023

TIME	SESSION		SPEAKER
Before Monday	Math exam, online access		Online Exam

## MATH WEEK

Monday, August 14, 2023

TIME	SESSION		SPEAKER
8:00 - 8:30 AM ET	Welcome and Orientation		Shizhu
8:30 - 11:30 AM ET	<b>Math Lecture 1</b>		Instructor
11:30 - 12:00 PM ET	Welcome from the Program Director		Petter
12:00 - 1:00 PM ET	Lunch box (provided)		
1:00 - 2:00 PM ET	Study time and practice session		
2:00 - 3:00 PM ET	TA sample problems		TA
3:00 - 4:30 PM ET	HW1 Review - student lead		TA