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

- 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
# A Typical Day: Career Week

**Monday, August 21, 2023**

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

**Monday, August 28, 2023**

<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSION</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 - 9:00 AM ET</td>
<td>CS week day 1 exam</td>
<td></td>
</tr>
<tr>
<td>9:00 - 12:00 AM ET</td>
<td><strong>CS Lecture 1</strong></td>
<td>Instructor</td>
</tr>
<tr>
<td>1:00 - 1:30 PM ET</td>
<td>CS Lab 1: understanding and explanation</td>
<td>TA</td>
</tr>
<tr>
<td>1:30 - 3:00 PM ET</td>
<td>CS Lab 1: coding time</td>
<td>TA</td>
</tr>
<tr>
<td>3:00 - 5:00 PM ET</td>
<td>CS Lab 1: review and debug</td>
<td>TA</td>
</tr>
<tr>
<td>5:30 - 7:00 PM ET</td>
<td><strong>Employer session timeblock</strong></td>
<td></td>
</tr>
<tr>
<td>8:30 - 9:30 PM ET</td>
<td>TA office hours (remote)</td>
<td>TA</td>
</tr>
</tbody>
</table>
A TYPICAL DAY: MATH WEEK

<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSION</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before Monday</td>
<td>Math exam, online access</td>
<td>Online Exam</td>
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</tbody>
</table>

**MATH WEEK**

<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSION</th>
<th>SPEAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday, August 14, 2023</strong></td>
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</tr>
<tr>
<td>8:00 - 8:30 AM ET</td>
<td>Welcome and Orientation</td>
<td>Shizhu</td>
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<tr>
<td>8:30 - 11:30 AM ET</td>
<td><strong>Math Lecture 1</strong></td>
<td>Instructor</td>
</tr>
<tr>
<td>11:30 - 12:00 PM ET</td>
<td>Welcome from the Program Director</td>
<td>Petter</td>
</tr>
<tr>
<td>12:00 - 1:00 PM ET</td>
<td>Lunch box (provided)</td>
<td></td>
</tr>
<tr>
<td>1:00 - 2:00 PM ET</td>
<td>Study time and practice session</td>
<td></td>
</tr>
<tr>
<td>2:00 - 3:00 PM ET</td>
<td>TA sample problems</td>
<td>TA</td>
</tr>
<tr>
<td>3:00 - 4:30 PM ET</td>
<td>HW1 Review - student lead</td>
<td>TA</td>
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</tbody>
</table>