



**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

Nanyang Business School

MSc FINANCIAL ENGINEERING



GRADUATE STUDIES

INNOVATE. LEAD. TRANSFORM.

ABOUT NANYANG BUSINESS SCHOOL

INNOVATE. LEAD. TRANSFORM.

A premier business school within a leading technological university, Nanyang Business School (NBS) is the nexus of world-class innovation, research, and business education.

At NBS, we innovate through interdisciplinarity, lead with cultural dexterity, and transform for sustainability.

INNOVATE THROUGH INTERDISCIPLINARITY

Situated within the vibrant tech and innovation ecosystem of Nanyang Technological University, we are a pioneer in harnessing technology for various business domains. Our collaborative programmes emphasise interdisciplinary learning, empowering learners to address challenges like urban sustainability, supply chain resilience, healthcare, and ageing, preparing them for today's dynamic landscape.

LEAD WITH CULTURAL DEXTERITY

Strategically based in Singapore, NBS blends Asian-Western influences in its programmes. Our world-class faculty integrates Asian heritage with business insights, emphasising cultural intelligence, Asian consumer psychology, and ASEAN studies. We shape globally minded leaders, adept at making a lasting impact across Asia and beyond.

TRANSFORM FOR SUSTAINABILITY

Bringing together NTU Singapore's strengths in science and technology with NBS's strategic business leadership expertise, our programmes nurture purposeful leaders advocating success and ethical behaviour. Guided to transcend boundaries, these leaders drive meaningful change, creating value beyond business outcomes, and champion a journey towards sustainability in business, society, and the environment.

RANKINGS



1st
Times Higher Education
Young University
Rankings 2024



15th
QS World University
Rankings 2025



POWER YOUR FUTURE



THE MSc FINANCIAL ENGINEERING EDGE

The MSc Financial Engineering programme aims to cultivate you with strong financial expertise. Gain advanced expertise in finance, computer science, and mathematics to tackle complex financial issues using sophisticated tools and stay ahead of rapid advances in high-technology finance.



**ESTABLISHED
PROGRAMME WITH
STRONG INDUSTRY LINKS**

With over 20 years of history, the MSc Financial Engineering is one of the most established programmes in the region. Our graduates are highly valued by their employers and have forged thriving careers in financial institutions.



**LEVERAGING NTU'S
ECOSYSTEM OF
EXPERTISE**

The programme, designed by NBS and in collaboration with NTU's School of Physical and Mathematical Sciences, offers world-class teaching expertise and resources from two renowned institutions.



**OVERSEAS EXPOSURE
AT A PRESTIGIOUS
INSTITUTION**

Participants can spend a seven-week term at Carnegie Mellon University (CMU) in the USA, renowned for its accomplishments in computational finance.



EXPAND YOUR PROFESSIONAL NETWORK

The MSc Financial Engineering programme attracts talented individuals from diverse backgrounds, enriching your peer-to-peer learning experience. You'll forge connections in class and join NTU's alumni network, fostering idea exchange and insight sharing.

CLASS PROFILE

STUDENT LIFE



60
CLASS SIZE



23
AVERAGE AGE



70%+
INTERNATIONAL STUDENTS



TOP 3
UNDERGRADUATE
MAJORS

— Business
— STEM
— Economics

CAREER DEVELOPMENT

The Graduate Studies Career Development Office (GSCDO) is here to translate your NBS experience into the right job fit amid a constantly evolving corporate landscape.

We continually push the boundaries to prepare you for a rewarding career and ensure you get the best start to your career journey.

EMPLOYMENT HIGHLIGHTS



CAREER COACHING



CAREER RESOURCES



RECRUITMENT EVENTS



GLOBAL OPPORTUNITIES



INTERNSHIP



ALUMNI NETWORK



PROGRAMME STRUCTURE

The MSc Financial Engineering programme can be completed full-time in one year (three trimesters) or part-time in two years (six trimesters). Each trimester has two seven-week mini terms.

JUL - OCT

ORIENTATION

- Jul

TRIMESTER 1

- Asset Pricing Theory
- Calculus & Linear Algebra
- Corporate Finance
- Derivative Securities
- Linear Financial Models
- Object Oriented Programming I
- Probability & Statistics
- Programming Web Applications in Finance
- Stochastic Modeling in Asset Pricing

MAR - JUN

TRIMESTER 3

- Credit Risk - Measurement & Management
- Exotic Options & Structured Products
- Financial Risk Management
- Numerical Methods for Financial Instrument Pricing
- Quantitative Management of Bond Portfolio

USA SEGMENT - CARNEGIE MELLON UNIVERSITY (CMU TRACK) 7 WEEKS

- Advanced Risk Management
- Financial Computing
- Simulation Methods
- Term Structure - Theory & Practice

LATE JUN

COMPULSORY MATHEMATICS PREPARATORY COURSE

NOV - MAR

TRIMESTER 2

- Advanced Statistical Modeling
- Artificial Intelligence Techniques in Finance
- Bond Portfolio Management
- Stochastic Calculus in Finance
- Equity Portfolio Management
- Financial Time Series Analysis
- Interest Rate Derivatives
- Object Oriented Programming II
- Optimisation in Finance

JUL- DEC

• INTERNSHIP (OPTIONAL)

Note: Schedule and courses are subject to change

ADMISSION



ONLINE SUBMISSION

www.applynbs.com/apply

APPLICATION DEADLINES

Round 1: 30 November

Round 2: 28 February

PROGRAMME FEE

S\$67,410 - Full/Part-time - CMU Track
(inclusive of GST)

S\$63,220 - Full/Part-time - Non-CMU
track (inclusive of GST)

APPLICATION FEE

S\$100

REQUIREMENTS

- A good bachelor's degree with a strong background in mathematics, statistics, or computing programming. We will also consider applicants from other disciplines
- Good GMAT or GRE score *
- TOEFL or IELTS score, if English was not the medium of instruction at the undergraduate level
- Work experience is not required

* GMAT/GRE scores are optional for NTU's SPMS graduates with Honours (Distinction) degree and above

SCHOLARSHIPS & FINANCIAL AID

A range of merit-based scholarships are available to MFE participants.

- ASEAN Development Scholarship
- MSc Financial Engineering Merit Scholarship
- NTU Alumni Grant
- Singapore Citizen & Singapore PR Grant

For more information, please visit:

<https://www.ntu.edu.sg/business/admissions/graduate-studies/msc-financial-engineering/admissions#scholarships>



MSc FINANCIAL ENGINEERING

NANYANG BUSINESS SCHOOL
NANYANG TECHNOLOGICAL
UNIVERSITY, SINGAPORE







91 Nanyang Ave, Gaia, ABS-01-029
Singapore 639956

Email mfe@ntu.edu.sg
Phone +65 6513 8668 / 6790 5794
Web ntu.sg/nbsx-mfe



SCAN QR TO START
YOUR APPLICATION

CONNECT WITH US

-  facebook.com/NBSNTU
-  linkedin.com/school/nanyang-business-school
-  nanyangbizschool
-  NanyangBusinessSchool
-  blogs.ntu.edu.sg/nbsgradstudies
-  tiktok.com/@nanyangbusinessschool



WeChat
NBS南洋商学院



Xiaohongshu
NBS南洋商学院



AACSB
ACCREDITED