



**NANYANG
TECHNOLOGICAL
UNIVERSITY**
SINGAPORE

Nanyang Business School

WHERE BUSINESS BEGINS

YOUR SUCCESS STORY
BEGINS WITH A BACHELOR
OF APPLIED COMPUTING
IN FINANCE FROM NBS.

UNDERGRADUATE PROGRAMMES
INNOVATE. LEAD. TRANSFORM.

BACHELOR OF APPLIED COMPUTING IN FINANCE

DEAN'S MESSAGE

PREPARE FOR
YOUR FUTURE WITH
CONFIDENCE



**PROFESSOR
JUN YANG**

DEAN, COLLEGE OF BUSINESS
(NANYANG BUSINESS SCHOOL)
PRESIDENT'S CHAIR IN FINANCE

“

Welcome to Nanyang Business School!

Deciding on a university is a major decision, and we're here to help you prepare for your future with confidence. As a premier business school in a leading technological university, we are uniquely placed to give you the skills needed to succeed in today's dynamic world.

Our programmes go beyond business. You'll uncover how business and technology intersect to solve real-world challenges while honing your capacity to innovate. We equip you to lead with cultural dexterity, preparing you to excel in diverse teams globally. As the world transforms, we give you the tools to drive sustainable change across industries.

Learning at NBS happens both inside and outside the classroom. Through internships, projects, and hands-on work experiences, you'll gain the practical skills and competence to step into your career, wherever it may take you. Whether you're interested in finance, entrepreneurship, or even technology, you'll graduate with the know-how and connections to succeed.

University life is also vibrant, offering countless opportunities for growth. From the energy of hall life to student clubs and community initiatives, you'll build friendships, discover new passions, and sharpen your leadership skills. Plus, with the support of our 65,000-strong alumni network, you'll always have guidance as you navigate your journey.

We believe every student has the potential to shape the future. We're excited to help you discover your strengths and achieve your goals, whether you're aiming to lead in business or create positive change in the world.

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MASTER THE MARKETS

ABOUT OUR BACHELOR OF APPLIED COMPUTING IN FINANCE DEGREE

Our Bachelor of Applied Computing in Finance degree (BACF) puts you on the road to becoming an expert in Finance and Tech. This interdisciplinary degree blends deep domain knowledge in finance, with strong technological skillsets through a unique mix of classroom learning and experiential training.

The big data analytics and digitalization revolution has created a strong demand for professionals with the ability to apply technological and data science know-how in the context of financial services. Graduating from this degree programme positions you perfectly to meet the demand of financial institutions and FinTech firms for talent with a blend of programming, data and statistics skills, analytics know-how, and in-depth finance domain knowledge.

Students may choose from the 3 tracks - Financial Analytics and Wealthtech, Crypto Asset and Blockchain or Digital Banking and Security.

CONTENTS

HOW TO FIND YOUR WAY AROUND THIS E-BROCHURE

This short e-brochure is designed to give you all the key information you might need to help you make the decision to select NBS as your first choice. You can use this contents menu to jump quickly to the section that most interests you - from picking your courses, to learning about overseas study, or the fun of hall life. Finally, the most important page of all - the apply now page (p28). See you there!

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5 REASONS TO SAY YES TO NBS

There are many reasons to make NBS your first choice for your Bachelor of Applied Computing in Finance degree (BACF). And the more you read of this e-brochure, the more you'll learn about them all. But to get us started, here are our "top five" reasons to pick NBS.



1. TAILORED

Our interdisciplinary curriculum allows you to assemble the perfect course - one that's tailor-made for you.



2. GLOBAL

Our overseas study opportunities are second to none - opening your eyes to a world of possibility.



3. MENTORSHIP

Our internship programme coupled with the support of our 60,000-strong alumni network combines to help get your career off to a flying start.



4. FRIENDSHIP

Clubs, community initiatives, and the adventure of life in Halls all offer a great way to build friendships and leadership skills.



5. QUALITY

The quality of our faculty and programme makes us the first business school in Singapore to be accredited by both the EFMD Quality Improvement System (EQUIS) and the Association to Advance Collegiate Schools of Business (AACSB).



STRUCTURED TO GIVE YOU THE COMPETITIVE ADVANTAGE

At University level, your education has to be about more than just subject matter expertise. We are also trying to send you out into the working world as a person of good character and general competence, as well as cognitive agility. Our “modular” structure (in which you’ll take a total of around 34 to 37 courses) is carefully structured to ensure that all these aspects of your personal development (which we call the three “C”s) are catered to.

THE THREE “C”S OF YOUR PERSONAL DEVELOPMENT



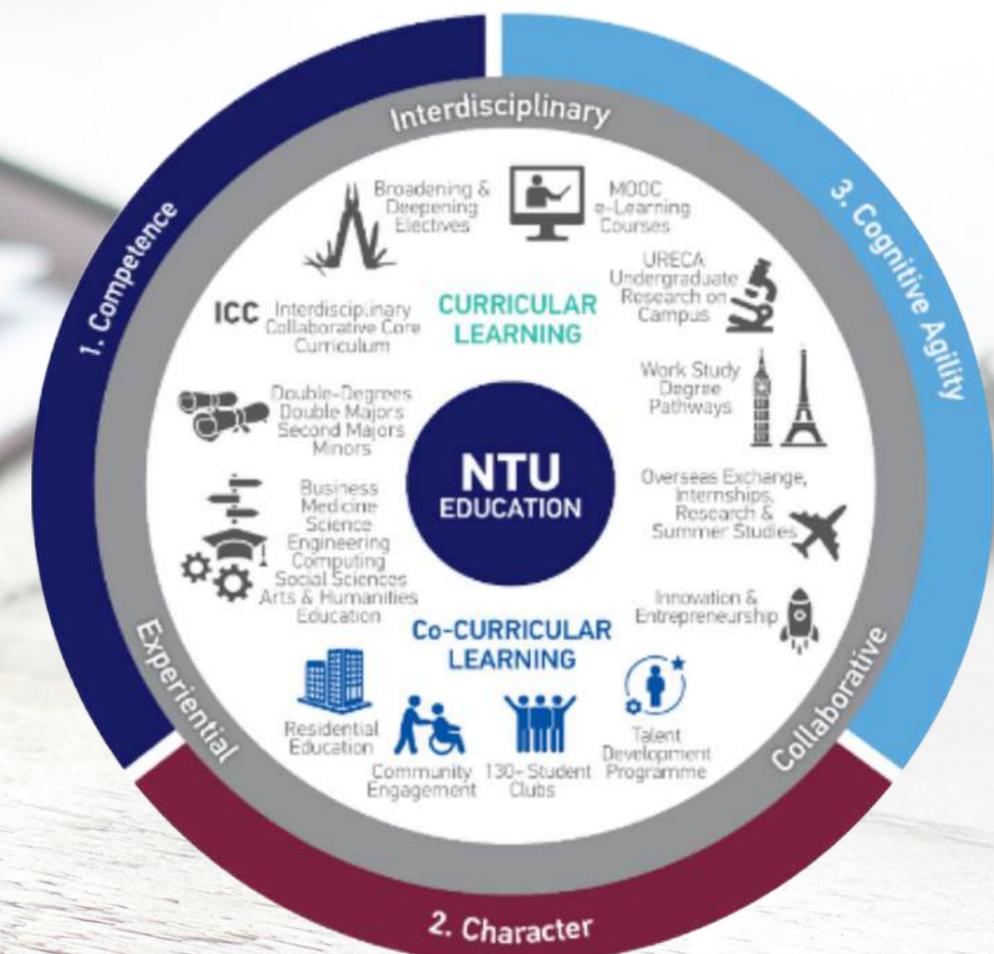
Character



Cognitive Agility



Competence



ASSEMBLING YOUR PROGRAMME

YOU NEED TO STUDY A MINIMUM OF 36 COURSES OVER 4 YEARS TO GRADUATE. NOW'S YOUR CHANCE TO CHOOSE.

Major requirement			Major Prescribed Electives	Interdisciplinary Collaborative Core (ICC)	
Common Core	Core (Fintech)	Core (DSAI)		Common Core	Foundational Core
4	9	9	5	7	2

The Bachelor of Applied Computing in Finance degree (BACF) programme at Nanyang Technological University (NTU) is a rigorous, broad-based four-year direct honours programme. It will help you gain a global, forward-looking perspective, plus critical analytical skills.

As per the table above, you need to take a number of courses in the six categories listed. Some of those are mandatory courses (such as Major Requirement - DSAI Core), and some you can select from a list of options such as your choice of business specialisation (Major Requirement - Fintech Specialisation Core). Assemble your perfect programme!



MANDATORY COURSES

HERE ARE YOUR 36 “CORE” COURSES.

We operate one of the most rigorous Bachelor of Applied Computing in Finance degree (BACF) programmes in the world. Every single one of our students will study all 36 of the courses you see on the right. Together, these will provide you with a thorough grounding in finance and technology, that will set you up for future success.

COMMON CORE COURSES (ICC)	FOUNDATIONAL CORE COURSES (ICC)	BUSINESS AND TECHNOLOGY CORE COURSES	
<ul style="list-style-type: none"> Inquiry and Communication in An Interdisciplinary World 	<ul style="list-style-type: none"> Careers Future Forward 	<ul style="list-style-type: none"> Introduction to Computational Thinking & Programming (ICTP) 	<ul style="list-style-type: none"> Fintech in Investment Management
<ul style="list-style-type: none"> Navigating the Digital World 	<ul style="list-style-type: none"> Communication Management Strategies 	<ul style="list-style-type: none"> Math 1: Linear Algebra and Calculus for Computing 	<ul style="list-style-type: none"> Software Engineering
<ul style="list-style-type: none"> Ethics & Civics in a Multicultural World 		<ul style="list-style-type: none"> Statistics and Analysis (SA) 	<ul style="list-style-type: none"> Cloud Computing
<ul style="list-style-type: none"> Career & Entrepreneurial Development for the Future World 		<ul style="list-style-type: none"> Financial Accounting I 	<ul style="list-style-type: none"> Introduction to Database Systems
<ul style="list-style-type: none"> Science & Technology for Humanity 		<ul style="list-style-type: none"> Math 2: Discrete Structures for Computing 	<ul style="list-style-type: none"> Financial and Risk Analytics I
<ul style="list-style-type: none"> Healthy Living & Mental Well-being in an Aging Society 		<ul style="list-style-type: none"> Data Structures & Algorithms (DSA) 	<ul style="list-style-type: none"> Global Financial Markets and Institution
<ul style="list-style-type: none"> Sustainability: Society, Economy & Environment 		<ul style="list-style-type: none"> Principles of Economics 	<ul style="list-style-type: none"> Machine Learning in Finance
		<ul style="list-style-type: none"> Financial Management (FM) 	<ul style="list-style-type: none"> Blockchain in Finance
		<ul style="list-style-type: none"> Algorithm Design and Analysis (ADA) 	<ul style="list-style-type: none"> Ethics and Regulations for Digital Finance
		<ul style="list-style-type: none"> Object Oriented Design and Programming (OODP) 	<ul style="list-style-type: none"> Product Management
		<ul style="list-style-type: none"> Ethics in the Investment Profession 	<ul style="list-style-type: none"> 5 Fintech Specialisation courses (see next page)
		<ul style="list-style-type: none"> Investments 	
7 COURSES	2 COURSES	27 COURSES	

PICK YOUR TRACKS

You can choose any of the 5 courses on the right by taking at least 2 courses each from the two baskets. Students are required to take the compulsory course marked with *to qualify for a track. Take a closer look at what each of these entails and then the decision is yours!



1 FINANCIAL ANALYTICS AND WEALTHTECH

Gain up-to-date knowledge and skills in data analysis, mining and visualisation specific to the finance sector and wealth management segment.

Basket 1

1. **Data Visualisation***
2. Machine Learning
3. Artificial Intelligence
4. Data Analytics and Mining
5. Natural Language Processing
6. Neural Networks and Deep Learning

Basket 2

7. **Financial and Risk Analytics II***
8. **Wealth Management***
9. Financial Compliance
10. Relationship Management
11. Equity Investing with Big Data
12. Sustainable Finance=

2 CRYPTO ASSET AND BLOCKCHAIN

Gain a comprehensive understanding of the application of blockchain technology in finance as well as the technological building blocks of blockchain such as cryptography and distributed systems.

Basket 1

1. **Blockchain Technology***
2. **Distributed Systems***
3. Security Management
4. Applied Cryptography
5. Network Security

Basket 2

6. **Alternative Investments***
7. Financial risk management
8. Financing Entrepreneurial Ventures
9. Portfolio Management
10. Operational Risk Management
11. Derivative Securities and Hedging Strategies

3 DIGITAL BANKING AND SECURITY

Receive fundamental training on compliance, law & regulation, and sustainability. As well as the necessary knowledge on digitalization and cyber security faced by the banking sector.

Basket 1

1. **Cyber Threat Intelligence***
2. Applied Cryptography
3. Security Management
4. Artificial Intelligence
5. Network Security

Basket 2

6. **Financial Compliance***
7. Financial risk management
8. Sustainable Finance
9. Operational Risk Management

LET YOUR AMBITIONS TAKE FLIGHT.

WE OFFER A MULTITUDE
OF SCHOLARSHIPS
RECOGNISING TALENT
AND POTENTIAL.

Our scholarships are offered in recognition of academic excellence and leadership potential. We offer a variety of scholarships to new as well as current students pursuing their full-time undergraduate studies, and they are generally awarded to students based on academic merit and good co-curricular records

Scholarships may include both a living allowance and an accommodation allowance, a travel grant, and even a one-off computer allowance.

Click on the QR code below to view our full list of scholarships, and to apply.

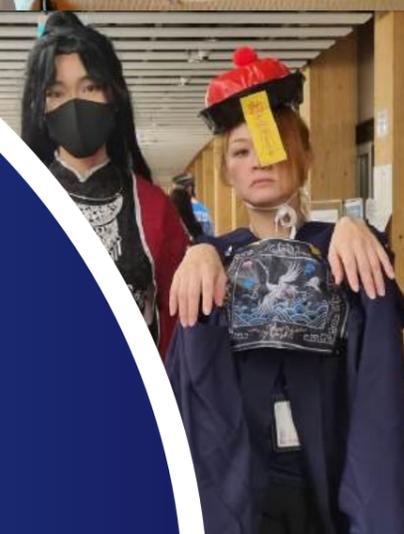




LIVE YOUR NBS LIFE

HALL LIFE: We offer all students the chance to live in our Halls of Residence. This “residential education” is an amazing immersive experience and a great way to study.

HOUSES & CLUBS: Every student will be allocated a “house” when they arrive - a sense of fraternity and a place to belong. There are also dozens of clubs you can join - a club for every interest!





BROADEN YOUR HORIZONS.

OVERSEAS STUDENT EXCHANGE AND INTERNSHIP OPPORTUNITIES

Today's globalised business climate requires talent who are equipped with a global mindset and cultural intelligence.

What better way for you to develop this than by doing an overseas internship. Maybe you'll be working at Goldman Sachs New York, or Tesla in Austen Texas?

We've arranged overseas internships in over 15 countries around the world so far - tell us where you want to go and we'll do everything we can to help you broaden your horizons.



WHERE WILL YOUR CAREER BEGIN?



NBS is the only school at NTU with its own dedicated careers team. We call them ACE - Academy for Career Excellence. And it's their job to help open doors for you to some of the world's finest companies. We will also connect you with mentors who can give you advice as you transition from the world of study to world of employment.



APPLY TO NBS TODAY





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