MASTER OF SCIENCE BUSINESS ANALYTICS

Solving tomorrow's challenges with today's data insights

Access an interdisciplinary curriculum designed by NUS Business School and NUS Computing

COLLABORATIVE INDUSTRIAL PARTNERSHIPS

Interact with more than 100 organisations across different industries

DIVERSE COMMUNITY

Connect with a global network of students and alumni across 28 countries and regions

NUS Business Analytics Centre

SUPPORTED BY NUS BUSINESS SCHOOL & NUS COMPUTING

SOLVING TOMORROW'S CHALLENGES WITH TODAY'S DATA INSIGHTS



QS World University Rankings 2019 – 2022

NATIONAL UNIVERSITY OF SINGAPORE

National University of Singapore (NUS) is one of the world's leading universities, with over 40,000 students across three campuses. By offering a distinctively Asian yet global experience, NUS gives its students the opportunity not only to excel academically, but also to grow socially. NUS is recognised for its breadth of academic programmes, experiential learning, entrepreneurship education and impactful research. As we continue to grow from strength to strength, we take pride in nurturing our students and equipping them with the necessary skills to be the leaders of tomorrow.

NUS COMPUTING

The NUS School of Computing is the most established computing school in Singapore and offers outstanding undergraduate and graduate degree programmes in Computer Science, Information Systems, Computer Engineering, Business Analytics and Information Security, as well as specialisations in emerging areas of importance such as artificial intelligence, fintech, blockchain, analytics and security.

The exceptional education students experience here, coupled with the demand for computing talent in all fields and industries, make NUS Computing graduates highly sought-after. We instil our students with leadership qualities and a spirit of entrepreneurship through mentorship, community service initiatives and special programmes.

NUS BUSINESS SCHOOL

NUS Business School has consistently received top rankings in the Asia-Pacific region by independent publications and agencies such as Financial Times, Economist Intelligence Unit, and QS Top MBA in recognition of the quality of our programmes and graduates. The School is accredited by AACSB and EQUIS, signifying that NUS Business School has met the highest standards for business education.

NUS MASTER OF SCIENCE IN BUSINESS ANALYTICS



QS Business Masters Ranking: Business Analytics 2021 One of the pioneering multidisciplinary programmes in Business Analytics

NUS COMPUTING



QS World University Rankings by Subject 2021

TH IN THE WORLD

QS World University Rankings by Subject 2021

NUS BUSINESS SCHOOL

IN ASIA

Times Higher Education World University Rankings 2021 by Subject



ICube building, 21 Heng Mui Keng Terrace, #03-47, Singapore 119613

ABOUT MSBA

The NUS Master of Science in Business Analytics (MSBA) programme is offered by the NUS Business Analytics Centre (BAC), and jointly supported in equal partnership by NUS Business School and NUS Computing.

Taught by award-winning academics from both Schools, the NUS MSBA is offered both full-time and part-time. This programme is designed to facilitate experiential learning through a balance of intellectual academic rigour and hands-on applications. The unique feature and highlight of the programme is the Capstone Module which spans across one year¹ and consists of capstone lectures, industrial analytics seminars, business analytics innovation challenge and capstone project.

The NUS MSBA boasts a strong network of industry partners that our students can interact with and learn from, to enhance their career prospects and competencies in the field. Upon completion of the programme, NUS MSBA graduates will be well-equipped with skills such as machine learning and able to use relevant data-driven techniques and tools to understand and resolve complex business analytics problems, a skill highly sought-after in different industries such as finance, retail, information technology, supply chain, and healthcare, both locally and internationally.

¹ The capstone module for part-time students spans across the duration of their study.

NUS BAC

In 2013, NUS BAC was established in collaboration with IBM to develop a talent pool of business analytics professionals to meet the needs of companies looking to improve their businesses through the use of analytics. In a 5-year collaboration that ensued, NUS offered academic expertise to design, craft and conduct the MSBA programme while IBM contributed industrial knowledge.

Global interest in the field of analytics has since grown tremendously, with companies across various industries actively seeking for talent who excel in the analytics field. To date, more than 500 industrial analytics projects were completed by NUS MSBA students, with the school forming valuable partnerships with more than **100** organisations.

OUR DIRECTORS



KHOO Siau Cheng Associate Professor NUS Computing Co-Director

Deputy Director







QUEK Khor Ping Visiting Senior Fellow NUS Business School **Deputy Director**

ADVISORY BOARD



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Mr Jeremy Ong AXA Singapore Chief Customer & **Operations Officer**



Dean Mohan S Kankanhalli NUS Computing and Dean



Provost's Chair Professor



Managing Director, Chief Analytics Officer



Mr Ian Wilson Wilson Innovation Lab Chairman



Dr Matthew Wang Cybernaut Investment Group President



Mr Paul Marriott SAP President Asia Pacific Japan



Mr Shah Bhavesh ConvaTec Group Global Vice President, Finance and Operational Excellence

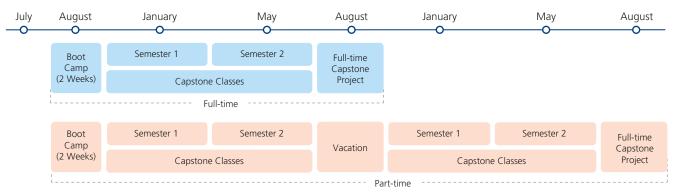


Students must complete a total of 44 modular credits, which comprises of 8 modules (5 essential, 3 electives¹) and 1 Capstone Module. The MSBA Capstone Module will be a one-year-long module consisting of capstone lectures, industry analytics seminars, and a 3 - 6 months full-time² capstone project.

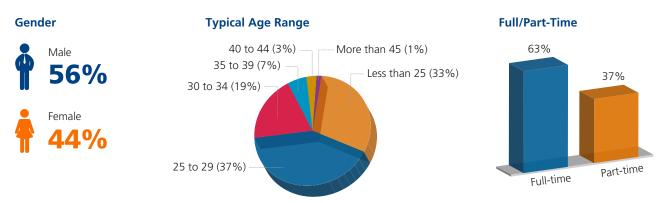


¹Students can select 3 modules from maximum 2 vertical sectors. The list is not exhaustive and is subject to change. ²Part time students are recommended to do their capstone projects with the companies they are working for. The Capstone Module for part-time students spans across the duration of their study but at half a load per semester as compared to the full-time students.

ACADEMIC TIMELINE



STUDENT PROFILE



Industry Background (Top 5)



Science & Technology



Financial Services



Public Service



Construction & Manufacturing



Business

Educational Background (Top 5)



Engineering



Computing



Business Management



Math & Statistics



Finance

International Students



Years of Working Experience



Fresh Graduates



Less Than 5 Years



5 Years and above

Employability



All information above are based on 2013 - 2020 intake and accurate as of 9 March 2021.



ChengDu 80 Fintech Competition 2018 – 2020





TESTIMONIALS

NUS MSBA provided a deep understanding of the latest advances in AI, Machine Learning and Big Data which are important skills required in my day to day current role to bridge business, digital and data analytics. The greatest takeaway was being exposed to infinite possibilities of building data driven business models. Current scalability cloud compute and data analytics affords businesses significant new opportunities.

Irving Sequeira

Senior Vice President - Digital Bancassurance, DBS Bank MSBA Intake 2014/2015



The NUS MSBA course has strengthened my analytical skills to gain insights of the business and operations opportunities as well as my ability to communicate information with a compelling narrative.

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Chua Hian Choon

Senior Director Systems on Silicon Manufacturing Co Pte Ltd (SSMC, JV of NXP and TSMC) MSBA Intake 2018/2019

The NUS MSBA taught me the nuts-and-bolts of data analytics and combines the best from both the business and computing worlds. There is also a strong emphasis on independent, self-directed study and this helped individuals develop independent critical business thinking, a skill that is highly sought after by companies.

Ong Wee Ling

Senior Manager, Ministry of Health MSBA Intake 2016/2017



The greatest takeaway from NUS MSBA for me is that while it is very easy for anyone to implement Machine Learning with off the shelf packages and tools these days, real expertise only comes from a sound understanding of the science behind these models. I have to thank my professors and the programme for helping me to gain this understanding and also instilling the curiosity and self-drive to continuously update my knowledge. This has armed me with the confidence to lead my present team in new projects.

Debosmita Chaudhuri

Vice President, Prime Services Client Analytics Strats, Goldman Sachs, London MSBA Intake 2017/2018



PARTNERS AND ALUMNI LIST

Consultancy Services

- Accenture
- BCG (Boston Consulting Group)
- Cognizant
- Deloitte
- Ernst & Young
- KPMG Services Pte. Ltd

Consumer Goods

- Cargill
- Henkel
- Nestlé S.A.
- P&G (Procter & Gamble)
- Unilever Singapore Pte. Ltd.
- Zalora Group

Government Agencies

- DSTA (Defence Science and Technology Agency)
- Enterprise Singapore
- Infocomm Media Development Authority (IMDA)
- Luxembourg Institute of Science and Technology (LIST)

WORDS FROM OUR PARTNERS

Ian Wilson

CEO

Wilson Innovation Lab,

marketplace today.

Abraham Thomas

Senior Partner.

- Ministry of Health (Singapore)
- PUB (Public Utilities Board)

Financial Service and Insurance

- Allianz SE
- AXA Insurance Pte. Ltd.
- Bloomberg LP
- Bank of New York Mellon (BNYM)
- DBS Bank Ltd.
- Eastspring Investments (Singapore) Limited
- Goldman Sachs & Co. LLC
- Great Eastern Holdings Ltd.
- HSBC Bank (Singapore) Ltd.
- J.P. Morgan Chase & Co.
- Mitsubishi UFJ Financial Group, Inc.
- Morgan Stanley
- Munich Re Group
- NTUC Income • OCBC Bank
- PayPal Pte. Ltd.
- Refinitiv

The half-life of your knowledge is extremely short,

so I would encourage every student to continue

learning. As you go into the workforce, I would

scientists or analytics experts. Rather, position

your mindset to be problem solvers, inspiration

I would recommend both undergraduates and

further their pursuits. There is unlimited demand

experience and background in business analytics,

and also the necessary capabilities, you will get an

graduates to consider analytics as an area to

and potential in this field. If you have relevant

audience with almost any organisation in the

IBM Global Business Services, China

providers, solution providers, or data evangelists.

encourage you to not think of yourselves as data

- Standard Chartered Bank State Street Corporation
- Swiss Re
- The Blackstone Group L.P.
- UOB (United Overseas Bank Ltd.)

Information Technology

- Apple Inc.
- Baidu, Inc.
- Dassault Systèmes
- Dell Technologies Inc.
- Facebook, Inc.
- Google LLC
- GrabTaxi Holdings Pte. Ltd.
- Hewlett-Packard
- HubSpot, Inc.
- IBM
- Lenovo Inc.
- LinkedIn Corporation • Logitech International S.A.
- Microsoft Corporation
- Oracle Corporation
- Palantir Technologies
- SAP
- SAS Institute Inc.
- SenseTime
- Twitter
- ViSenze Pte. Ltd.

Retail and Ecommerce

- Alibaba Group Holding Ltd.
- Amazon.com, Inc.
- Chalhoub Group
- Lazada Group
- Shopee Singapore

Healthcare

- Baxter International Inc.
- IHiS (Integrated Health Information Systems) Pte. Ltd.
- Johnson & Johnson Pte. Ltd.
- JurongHealth
- MOH Holdings Pte. Ltd.
- MSD
- SingHealth
- Zuellig Pharma

Logistics & Manufacturing

- BASE SE
- Changi Airport Group
- DHL
- Dyson
- FAW Group
- Philips
- PSA Corporation Ltd.
- Robert Bosch
- SMRT Corporation Ltd.
- ST Engineering Electronics
- Tetra Pak, Inc.
- United Parcel Service (UPS)
- Y3 Technologies Pte. Ltd.

Real Estate and Hotel

• Ascendas REIT

The NUS MSBA students come with a fresh

perspective in new techniques that they have

picked up in school and all of that helped my

differently. Each student was assigned with a

data science team to grow and learn to do things

real-life problem that we are solving on, and the

We had some great projects with the NUS MSBA

projects are using big data, machine learning, and

better business insights to run our company better.

Executive Board Member, Customer Success, SAP

students here at SAP. Not only was it a great

capstone project but they have created real

business impact for us. All of these capstone

real time analytics which helped us in gaining

range of real life problems is quite broad. In all our use cases, we have seen MSBA students add

value to what we are enhancing.

Chief Analytics Officer, DBS Bank

Sameer Gupta Managing Director,

Scott Russell

- CFLD (China Fortune Land Development Co., Ltd.)
- Marina Bay Sands Pte. Ltd.



BE A CATALYST OF DIGITAL TRANSFORMATION

There is only one intake in August each year for the Masters of Science in Business Analytics programme. Interested applicants must apply online at

msba.nus.edu.sg/apply-now

For the list of documents and application checklist, please go to

msba.nus.edu.sg/programme/admission-application

ADMISSION CRITERIA¹

- A good Bachelor's degree with a good honours classification, preferably from Business, Computing, Economics, Engineering, Mathematics, Science or Statistics; or at least 2 years' relevant work experience
- A good quantitative score in GRE/GMAT for overseas degree-holders²
- Strong Mathematics foundation
- Good aptitude for programming

APPLICATION PERIOD³

August intake (AY2021/22) Opens on: 11 Oct 2021, Monday Closes on: 31 Jan 2022, Monday

To apply, please submit an application via **https://msba.nus.edu.sg/apply-now** or scan the QR code on the right.



PROGRAMME FEES⁴

Application Fee

Singaporeans and PRs S\$53,000⁵

International students

S\$58.000⁵

Students are required to make an upfront payment of \$\$4,000⁶ (incl. in tutition fees) upon acceptance into the programme.

¹All credentials will be weighted by the quality of applicants each year. Hence, there is no minimum cut-off for any component.

²An applicant do not need to submit a GRE/GMAT score if he has obtained a degree from either of the 4 local universities (NUS, NTU, SMU, SUTD).

³The application period is subject to change. Visit https://msba.nus.edu.sg/programme/admission-application/ for latest updates.

⁴The amount reflects the current fees for the programme. Once a student is admitted, his tuition fees are locked in. However, NUS reserves the right to alter tuition fees for incoming cohorts.

⁵The tuition fee is subject to prevailing Goods and Services (GST) tax.

6S\$4,000 is non-refundable and non-transferable.









Information in brochure is accurate as of 11 August 2021. Download latest copy of brochure from https://msba.nus.edu.sg/brochure-download/

NUS Business Analytics Centre

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