Get to know other DISA professors and TAs here: https://www.comp.nus.edu.sg/about/depts/disafaculty/
Agenda

1. Welcome Speech by Head of Department (HoD)
2. Where are you heading? See where your seniors are
3. How can I prepare? Remember the key milestones
4. Overview of a Degree Programme
5. Bachelor of Computing (Information Systems)
6. Bachelor of Science (Business Analytics)
7. Internships and Undergraduate Research Programmes
8. Introduction to Fintech@NUS
9. BZA/IS Student Experience Sharing
10. Q&A
Welcome Speech by HoD

Goh Khim Yong
Associate Professor
Head of Department, DISA
gohky@comp.nus.edu.sg
Where are you heading? See where your seniors are
Information Systems
Recent Graduate Employment

- J.P. Morgan: Software Developer
- GIC: Systems Analyst
- SGX: Innovation Technology Developer
- IBM: Business Transformation Consultant
- Microsoft: Software Developer
- accenture: Systems Analyst
- CISCO: Application Developer
- AWS: Business Development Executive
- GOV TECH SINGAPORE: Software Engineer
- Goldman Sachs: Technology Analyst
- IRAS: Quality Assurance Specialist
- SINGAPORE AIRLINES: Data Scientist
- IHIS: Software Engineer
- Bank of America Merrill Lynch: Technology Analyst
- TikTok: Software Engineer
- Shopee: Product Management Associate
Business Analytics

Recent Graduate Employment

- Data Scientist
- Data Analyst
- Product Analyst
- Software Engineer
- Technology Analyst
- Data Scientist
- Data Analyst
- Market Analyst
- Software Engineer
- Data Scientist
- Data Analyst
- Technology Analyst
- Software Developer
- Data Scientist
- Data Analyst
- Technology Analyst
- Data Science Associate
How can I prepare? Remember the key milestones
Year 1

- How do I plan?

Year 2

- Internship after Y1?
- Hackathon? Innovation Challenges?
- Student exchange?

Year 3 (penultimate)

- NOC?
- Capstone project?
- Internship?

Year 4

- Dissertation?
STEP 1. Module planning
   -- based on individual aspiration,
   particularly for programme electives and unrestricted electives

STEP 2. CV review
   -- domain and professional positioning

STEP 3. Interview preparation
   -- internship and job interview

STEP 4. Technical test preparation

ADVICE: 1. Build your LinkedIn profile from day 1
   2. Explore opportunities and discover your interest – attend more industry talks
Overview of a degree programme
Curriculum Structure

- For single degree, **160 modular credits (MCs)**
  - MCs for core and elective modules may vary for different degrees
- For double degree, **200 MCs (approximately)**
- For poly-intake, **20 MCs is automatically awarded for unrestricted electives**
  - up to **8 MCs to fulfil**

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<thead>
<tr>
<th>Modules</th>
<th>MCs</th>
<th>Subtotals</th>
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<tbody>
<tr>
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<tr>
<td>Core Modules</td>
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## Curriculum Structure

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- Read **1** General Education Module (GEM) from each of the 6 pillars
- Students are strongly encouraged to complete all GEM modules within the **first two years** of their candidature
- Please check for possible exemption from some pillar requirements based on your programme curriculum

Refer to this url: [https://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students/general-education/for-students-admitted-from-AY2021-22](https://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students/general-education/for-students-admitted-from-AY2021-22)
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</table>

- **Essential modules** that you must do
- For mathematics module requirement, there could be **2 options** for you to choose
- **Cross-faculty modules** (i.e., non CS/IS/BT-coded modules), please do clear them as soon as possible
- Be mindful of the **pre-requisites**
- **Pre-allocated modules**
- **Capstone project module** to be taken when you have sufficient confidence
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- Complete **6 or 7** programme elective modules
- For specialisation, there is a **pre-defined set** of modules to take (**20MCs**) -- you **do not need** to choose a specialisation -- once fulfilled the specialisation requirement, it’ll be reflected on your transcript
- You have lots of elective modules to choose, so **choose wisely**
## Curriculum Structure

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- Students with **CAP of 4.00 or higher** after completing at least 70% (i.e. 112 MCs) of the MC requirement for the degree programme may opt to replace the Industry Internship Programme by **Dissertation (12 MCs)**.
- If you opt to take a dissertation, you **do not need** to take up internship.
- Students who aim for **Honours (Highest Distinction)** must pass the Dissertation.
## Curriculum Structure

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- **Poly-intake:** reduce **20 MCs**
- **Doing a minor:** **20 MCs** (potentially up to 8 MCs double counted)
- **Doing a second major:** **40 MCs** (potentially up to 16 MCs can be double counted)
- **Suggestion:** Choose more modules from the BT/IS elective module list. They are specially created for you!
Points to take note

- Read at least 18 MCs every semester throughout your candidature, except during the following semesters when you are allowed to read fewer MCs:
  -- final semester before completion of all graduation requirements for the degree
  -- semester in which you are doing industrial attachment or final year project
- You cannot overload more than 23 MCs in the first semester; overloading in subsequent semesters based on CAP and requires approval.
- You are not allowed to opt for a new Minor or Second Major programme beyond the end of the 5th semester of study. Do it early!

For more information: [http://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students](http://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students)
Points to take note

➢ Check both your NUS and Comp emails regularly.
   -- Please do not ignore email from ohlb@nus.edu.sg (or ohlb@comp.nus.edu.sg)

➢ Find your study mate(s)
   -- many of the modules have group-based project and assignment
   -- capstone project is a team-based module
   -- IIP is a paired internship

➢ Watch out for your CAP
   -- to graduate, you need a minimum CAP of 2.00.
   -- to continue in an undergraduate programme of study, a student may not have CAP below 2.00 for two consecutive semesters.

** for any semester in which the student’s CAP falls below 2.00, s/he will be placed on probation.

** if the student’s CAP remains below 2.00 for the second consecutive semester, the student will be issued a letter of dismissal by the Registrar and denied re-admission.
Points to take note (S/U Option)

- May exercise S/U option for up to 32 MCs in first two regular semesters; if this is not fully utilised, the S/U option may still be exercised in subsequent semesters, for up to 12 MCs.
- **Poly intake**: may exercise S/U option for up to 20 MCs in first two regular semesters; if this is not fully utilised, the S/U option may still be exercised in subsequent semesters, for up to 12 MCs.
- S/U option will apply to all Level 1000 modules (with or without pre-requisites) and Level 2000 modules without other NUS modules as pre-requisites, unless otherwise stipulated by the Faculties/Departments.
- S/U option: obtain either Satisfactory (S) or Unsatisfactory (U) record for the module -- **not** included in the calculation of your performance -- **3-day window** to decide on S/U after release of exam results -- **irrevocable**!
- You must score a **minimum “C” grade** to get “S”. Otherwise your transcript will show “**U**” (Unsatisfactory) for the module. “U” also means that the module **cannot** be counted as satisfying a pre-requisite.

For further information: [http://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students/continuation-and-graduation-requirements](http://www.nus.edu.sg/registrar/academic-information-policies/undergraduate-students/continuation-and-graduation-requirements)
Bachelor of Computing (Information Systems)

https://www.comp.nus.edu.sg/cugresource/per-cohort/is/is-21-22/
Bachelor of Computing

Information Systems

Develop Expertise

Specialisation: Financial Technology, Digital Innovation, Electronic Commerce

Industry Capstone Project Internship (IIP, ATAP, NOC) Information Systems Dissertation

Develop Competency

Full-Stack development

Project Management

Professionalism and Communication

Math, Stats, and DISA

Computing

Computer Science

MA1312/MA1521/MA2002, ST2334 + BT1101

Computing + Statistics

Project Management

Professionalism and Communication

General Education

Student Exchange

Second Major/Minor

Double Degree
# Bachelor of Computing

## Information Systems

### A-level intake

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<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
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<td>S1</td>
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**TOTAL GRADUATION REQUIREMENTS = 160 MCs**

**ULR = University Level Requirements**  **PE = Programme Electives**  **UE = Unrestricted Electives**
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TOTAL GRADUATION REQUIREMENTS = 160 MCs - 20 MCs from Unrestricted Elective

**ULR = University Level Requirements**  **PE = Programme Electives**  **UE = Unrestricted Electives**

For reference only
# A Sample of IS Programme Electives

## Fintech & healthcare
- IS4228 Information Technologies in Financial Services
- IS4302 Blockchain and Distributed Ledger Technologies
- IS4303 IT-Mediated Financial Solutions and Platforms
- IS4250 IT-enabled Healthcare Solutioning

## Consulting
- IS3221 ERP Systems with Analytics Solutions
- IS4204 IT Governance
- IS4234 Compliance and Regulation Technology
- IS4243 Information Systems Consulting

## Agile S/W engineering & UI/UX
- IS4301 Agile IT with DevOps
- IS3240 Digital Platform Strategy and Architecture
- CS3240 Interaction Design
- IS4261 Designing IT-enabled Business Innovations

## Entrepreneurship
- IS3150 Digital Media Marketing
- IS3251 Principles of Technology Entrepreneurship
- IS4241 Social Media Network Analysis

## AI & IoT
- BT3107 Feature Engineering for Machine Learning
- IS4242 Intelligent Systems and Techniques
- IS4151 Pervasive Technology Solutions and Development
- IS4152 Affective Computing

* Coding required; ^ statistics required
Information Systems

Financial Technology Specialisation
Pursue niche jobs in the fintech industry upon graduation

Compulsory (Select any 2 modules)
- IS4228 Information Technologies in Financial Services
- IS4302 Blockchain and Distributed Ledger Technologies
- IS4303 IT-Mediated Financial Solutions and Platforms

FinTech Electives (Select any 3 modules)
- BT3017 Feature Engineering for Machine Learning
- IS3107 Data Engineering
- IS3221 ERP Systems with Analytics Solutions
- IS4231 Information Security Management
- IS4233 Legal Aspects of Information Technology
- IS4234 Compliance and Regulatory Technology
- IS4242 Intelligent Systems and Techniques
Digital Innovation Specialisation

Take on career paths such as becoming a digital strategist or an IT start-up entrepreneur

**Compulsory (Select any 2 modules)**
- IS3240 Digital Platform Strategy and Architecture
- IS3251 Principles of Technology Entrepreneurship
- IS4261 Designing IT-Enabled Business Innovations

**Digital Innovation Electives (Select any 3 modules)**
- BT3017 Feature Engineering for Machine Learning
- IS3150 Digital Media Marketing
- IS4152 Affective Computing
- IS4204 IT Governance
- IS4233 Legal Aspects of Information Technology
- IS4242 Intelligent Systems and Techniques
- IS4243 Information Systems Consulting
E-Commerce Specialisation

Pursue a business-oriented career and niche IT jobs like an e-commerce start-up entrepreneur or a digital strategist

Compulsory (Select any 2 modules)
- IS3150 Digital Media Marketing
- IS4151 Pervasive Technology Solutions and Development
- IS4261 Designing IT-Enabled Business Innovations

E-commerce Electives (Select any 3 modules)
- IS3107 Data Engineering
- IS3240 Digital Platform Strategy and Architecture
- IS4228 Information Technologies in Financial Services
- IS4231 Information Security Management
- IS4242 Intelligent Systems and Techniques
- IS4243 Information Systems Consulting
Bachelor of Science (Business Analytics)

https://www.comp.nus.edu.sg/cugresource/per-cohort/ba/ba-21-22/
### Bachelor of Science

#### Business Analytics

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**TOTAL GRADUATION REQUIREMENTS = 160 MCs**

**ULR = University Level Requirements**  
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For reference only
# Bachelor of Science in Business Analytics

**Poly-level intake** (with module exemptions)

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| Total | 20 MCs | 20 MCs | 20 MCs | 20 MCs | 20 MCs | 20 MCs | 0 MC |

**TOTAL GRADUATION REQUIREMENTS = 160 MCs - 20 MCs from Unrestricted Elective**

**Notes:**
- ULR = University Level Requirements
- PE = Programme Electives
- UE = Unrestricted Electives

*For reference only*
Programme Electives (PE)

- Choose **6 modules to make up 24 MCs** from Lists A, B and C, with at least 2 modules each from Lists A and B.
- **5 of 6 modules must be at level-4000.**

List A (Business Applications)

List B (Analytics Methods)

List C (Technology Implementation)
## A Sample of BZA Programme Electives

### Finance
- BT4013 Analytics for Capital Market Trading and Investment
- BT4016 Risk Analytics for Financial Services
- BT4012 Fraud Analytics
- IS4228 Information Technologies in Financial Services
- IS4302 Blockchain and Distributed Ledger Technologies
- ST4245 Statistical Methods for Finance

### Marketing
- BT4211 Data-Driven Marketing
- BT4212 Search Engine Optimization and Analytics
- BT4015 Geospatial Analytics
- IS3240 Digital Platform Strategy and Architecture
- IS4241 Social Media Network Analysis
- DBA3712 Dynamic Pricing and Revenue Management
- MKT4812 Market Analytics

### AI
- BT3107 Feature Engineering for Machine Learning
- BT4014 Analytics Driven Design of Adaptive Systems
- BT4240 Machine Learning for Predictive Data Analytics
- CS3244 Machine Learning

### Big data
- IS3107 Data Engineering
- BT4221 Big Data Techniques and Technologies
- BT4222 Mining Web Data for Business Insights

### Consulting
- IS4250 IT-enabled Healthcare Solutioning
- IS3221 ERP Systems with Analytics Solutions
- IE3120 Manufacturing Logistics
- DBA4811 Analytical Tools for Consulting

### Analytical Modeling
- IE2110 Operations Research I or DBA3701 Intro to Optimisation
- DBA3803 Predictive Analytics in Business
- BSE4711 Econometrics for Business II
- IE4210 Operations Research II
- ST3131 Regression Analysis

* Coding required; ^ statistics required
Bachelor of Science

Business Analytics

Financial Analytics Specialisation
Pursue niche jobs in Investment, Banking, Finance, Trading, and Fund Management

Compulsory modules (select any 2 modules)
- BT4013 Analytics for Capital Market Trading and Investment
- BT4016 Risk Analytics for Financial Services
- IS4228 Information Technologies in Financial Services

Elective modules (select any 3 modules):
- IS3107 Data Engineering
- BT4012 Fraud Analytics
- BT4221 Big Data Techniques and Technologies
- BT4222 Mining Web Data for Business Insights
- IS4234 Compliance and Regulatory Technology
- IS4302 Blockchain and Distributed Ledger Technologies
Take on career paths in a myriad of industries, from marketing, customer relationship, market research, to product development.

**Compulsory modules (select any 2 modules)**

- BT4211 Data-Driven Marketing
- BT4212 Search Engine Optimization and Analytics
- BT4222 Mining Web Data for Business Insights

**Elective modules (select any 3 modules):**

- BT3107 Feature Engineering for Machine Learning
- IS3107 Data Engineering
- BT4014 Analytics Driven Design of Adaptive Systems
- BT4015 Geospatial Analytics
- BT4221 Big Data Techniques and Technologies
- IS3240 Digital Platform Strategy and Architecture
- IS4241 Social Media Network Analysis
Internships and Undergraduate Research Programmes
Internships

- **12-MC, 24-week compulsory internship requirement**
  - may be substituted with **12-MC FYP dissertation**
- **Taken after 80MCs and some core module prerequisites**
- **BZA/IS students can take IIP, ATAP, or NOC to fulfill internship requirement**
  - but **not two 12-week SIP internships**
    - Industry Internship Programme (24 weeks, two in a team)
    - Advanced Technology Attachment Programme (24 weeks, individual)
    - NUS Overseas College Programme
- Can pursue **more than one internship**
  - (additional ones will count as unrestricted elective MCs)
- Possible to self-source internship but requires approval if to be taken with MCs
- **Recommended to do internship after completing industry capstone project**
- **Allowed to take up to two 4MC modules during internship semester**
  - (subject to company approval)
- **Not** allowed to do internship in the final graduating semester (needs special approval)
Internships
IS4010 Industry Internship Programme (IIP)

- Paired Internship Programme for BZA/IS students
- Two students work in a team
  (can be formed across BZA/IS/CS/InfoSec programmes)
- Identify suitable IIP partner from group projects or capstone project
- January-June or May-October (24 weeks)
- Letter graded instead of Completed Satisfactory/ Completed Unsatisfactory (CS/CU) for 12MCs
- Highly structured project(s) with meaningful and challenging tasks to improve your employability
- Deliverables and expectations similar to an industry FYP

https://www.comp.nus.edu.sg/industry/intern/student/iip/
Internships

Some IIP Sponsoring Organizations
Co-Operative Education Program

Bachelor of Science (Business Analytics)

- Integrates academic studies with relevant work experience
- Students complete multiple industrial attachment stints alternating with regular academic semesters over their 4-year candidature at NUS.
- Students can expect to work at an attached company for three internships (about 64 weeks or around 16 months).

Benefits of the programme

- Have a solid hands-on industry experience even before students graduate
- Apply the knowledge students learnt in classes immediately
- Gain deep knowledge on how a company operates in the domain of study
- Establish an early and enduring relation with an attached company
- Get a head start for future career
- Graduate in four years with careful planning
Undergraduate Research Program.

- **Final Year Project (FYP) Dissertation (BT4101/CP4101)** – 2 semesters; 12MCs
  - students who aim for Honours (Highest Distinction) must pass the Dissertation
  - condition "CAP of 4.00 or higher after completing at least 70% (112 MCs) of the MC requirement for the degree programme" must be satisfied before students can commence BT4101/CP4101.
  - FYP project selection process takes place one semester ahead of the semester in which the students commence BT4101/CP4101.
  - doing FYP as well as internship? Yes, possible but not concurrently.

- **Computing Project (CP4106)** – 2 semesters; 8MCs
  - open to all computing students who have completed at least 112 MCs.
  - students who are doing / plan to complete a Final Year Project (BT4101, CP4101, or any Integrated Honours Thesis/Project/Dissertation module) are **not** eligible to take CP4106

- **Independent Project (CP3106)** – 1 semester; 4MCs
Introduction to Fintech@NUS
“As digitisation becomes an essential anchor for our economy, it is crucial to provide companies with a foundation – including knowledge, experience and resources – for future-ready talent and enterprises to truly succeed. The NUS FinTech Lab is at the forefront of this mission to join forces across the industry, and provide the best collective intelligence and tools for everyone to navigate the digital future”

- Professor Mohan Kankanhalli, Dean of NUS School of Computing and Chairman of the FinTech Lab Advisory Board.
BZA/IS Student Experience Sharing
Stay Connected with the DISA Family!

Question and Answer