IS/BZA
Senior Sharing

Roy Chua
Y3, IS

Abhishek Jain
Y3, BZA
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>01</strong></td>
<td><strong>02</strong></td>
<td><strong>03</strong></td>
</tr>
<tr>
<td>BZA sharing</td>
<td>IS Sharing</td>
<td>Internships</td>
</tr>
<tr>
<td>Tips for BZA kids</td>
<td>Tips for IS kids</td>
<td>Putting on the big boy pants</td>
</tr>
<tr>
<td><strong>04</strong></td>
<td><strong>05</strong></td>
<td><strong>06</strong></td>
</tr>
<tr>
<td>Student Life</td>
<td>Managing Expectations</td>
<td>Q&amp;A</td>
</tr>
<tr>
<td>Who say computing no life...</td>
<td>Our attempt to give you wise sage advice</td>
<td>Don’t be shy, just ask!</td>
</tr>
</tbody>
</table>
The BZA Story

Why are you here?
What are my modules?
What’s my future like?
Why are you in BZA?
My life in BZA thus far (Y1&Y2)

- Telegram Bots!
- Built cool webapps
- Colourful dashboards on Tableau
- Complex algorithms and data structures in Java
- Fun with numbers!  (Math, Stats)
- Presentations, pitches, speeches
Rough Timeline in NUS

01
- Build foundation with core modules. Balance between technical and light modules.
- Explore CCAs, enjoy student life.
- Try some personal projects or Orbital. Internships are possible too!

02
- Try to complete most of your core modules here (CS2K, BT2K, BT3K)
- Focus on building practical skills and domain knowledge on topics you’re interested in.
- Explore hackathons, competitions, and potential internships!
- Build leadership or soft skills in CCAs

03
- Complete ATAP/IIP (Internship Requirement)
- Take your first few PE mods based on what you want to specialise in
- Go for SEP/NOC (Overseas Experience)
- Go for more hackathons and competitions!

04
- Complete capstone, FYP
- Take last few PE modules and keep the semester relatively chill
- Part-intern if you want to gain more experience
- Apply for full-time roles!
## Possible Academic Roadmap (YBZA)

### Semester 1

<table>
<thead>
<tr>
<th>Module</th>
<th>Summary</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS1010S</td>
<td>Python, Problem Solving</td>
<td>Heavy</td>
</tr>
<tr>
<td>BT1101</td>
<td>R, Data Analytics</td>
<td>Medium - Heavy</td>
</tr>
<tr>
<td>IS1103*</td>
<td>Ethics</td>
<td>Light</td>
</tr>
<tr>
<td>MA1521</td>
<td>Calculus</td>
<td>Light</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
</tbody>
</table>

### Semester 2

<table>
<thead>
<tr>
<th>Module</th>
<th>Summary</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS2030</td>
<td>Java, OOP &amp; FP</td>
<td>Heavy</td>
</tr>
<tr>
<td>BT2102</td>
<td>SQL, Database Management, Data Visualisation</td>
<td>Medium</td>
</tr>
<tr>
<td>IS2101</td>
<td>Communication, Presentation</td>
<td>Medium</td>
</tr>
<tr>
<td>MA2001</td>
<td>Linear Algebra</td>
<td>Heavy</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
</tbody>
</table>

People typically overload in Y1S2 to make full use of the S/Us, but it's up to you how you want to plan your time!  
Summer break: Take orbital, participate in planning or OGL for freshmen events.  
Most importantly, **HAVE FUN!**

*These mods are from the old syllabus. May not apply to you!
# Possible Academic Roadmap (Y2)

## Semester 1

<table>
<thead>
<tr>
<th>Module</th>
<th>Summary</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS2040</td>
<td>Data Structures &amp; Algorithms</td>
<td>Heavy</td>
</tr>
<tr>
<td>BT2101</td>
<td>Econometrics with Python</td>
<td>Medium</td>
</tr>
<tr>
<td>ST2334</td>
<td>Statistics</td>
<td>Medium</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
</tbody>
</table>

## Semester 2

<table>
<thead>
<tr>
<th>Module</th>
<th>Summary</th>
<th>Workload</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT3103</td>
<td>HTML/CSS &amp; JavaScript. Build a webapp with Vue.js</td>
<td>Heavy</td>
</tr>
<tr>
<td>IS3103</td>
<td>Digital Transformation, IT Leadership, Communication</td>
<td>Medium</td>
</tr>
<tr>
<td>Any PE</td>
<td>Based on your spec requirements!</td>
<td>Heavy</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
<td>Depends</td>
</tr>
</tbody>
</table>

During the sem, focus on finding your interests and building your skillset.
Summer: Try for your first internship, go for hackathons & competitions.
Programme Electives & Specialisations

These are some possible modules you can take to get a specialisation

**Financial Analytics**
- BT4013 Analytics for Capital Market Trading and Investment
- BT4016 Risk Analytics for Financial Services
- BT4012 Fraud Analytics
- IS4228 Information Technologies in Financial Services
- IS4226 Systematic Trading Strategies and Systems

**Marketing Analytics**
- BT4211 Data-Driven Marketing
- BT4212 Search Engine Optimization and Analytics
- BT4222 Mining Web Data for Business Insights
- IS3240 Digital Platform Strategy and Architecture
- IS4241 Social Media Network Analysis

**Machine Learning-based Analytics**
- BT4222 Mining Web Data for Business Insights
- BT4240 Machine Learning for Predictive Data Analytics
- BT4301 Business Analytics Solutions Development and Deployment
- IS3107 Data Engineering
- IS4242 Intelligent Systems and Techniques

**Some other cool PE modules**
- IS4250 IT-enabled Healthcare Solutioning
- BT4015 Geospatial Analytics
- IS3221 ERP Systems with Analytics Solutions
- IS4262 Digital Product Management
- ST4245 Statistical Methods for Finance
- IS4302 Blockchain and Distributed Ledger Technologies
What’s my future like?

Skills learnt in BZA is applicable across many industries including, finance, marketing, technology, healthcare, research, consulting, etc.
My advice for BZA juniors...

Balance technical and non-technical modules each semester
  ● Eg. Most students don't do CS2030 and CS2040 in the same semester

Don't force yourself to specialise
  ● Focus on the mods you are interested in, and those that are worth taking

Grades are not everything (most companies don't even ask for your CAP)
  ● Build yourself holistically through projects, CCAs, internships, etc

Explore different roles if you have a chance, the modules touch on various topics such as data analytics, data science, machine learning, product management, business development, etc
02
The IS Story
IS Best Major say real
My life in IS (In 1 Sem!)

Built Web and Mobile Apps from Scratch with my own Ideas

Present pitches and speeches about a Technology Transformation Project Idea

Solve Complex Problems using Coding Algorithms + Data Structures

Do user research and design Application screens from scratch
Glimpse of IS Modules

Technical Mods
Foundational Mods that expose you to Programming
Examples:
- CS10 10 J
- CS20 30
- CS20 40

Management Mods
Mods that hones your Technical Management and Communication Skills
Examples:
- IS 110 3
- IS 210 1
- IS 310 3

IS Core Mods
Specialised Mods relevant to IS Major, and Electives (Involve Tech + Business)
Examples:
- IS 210 2
- IS 210 3
- IS 310 6
- Capstone

Specialisations:
IS in Y1: Building Foundations

- Mainly Common Computing Modules
- Balance Technical and Less -Technical Modules to adjust to Uni -Life
- Learning curve may be steep but rewarding
- SU system! Take your time to understand!

Deep Dive into Core IS Modules

High level Modules (3k/4k)

Internship Experience

Overseas Experience (NOC/SEP)

Capstone Project

Programme Electives

Internship Experience

FYP/Dissertation (If not Internship)

Foundational Computing Modules
# Sample Y1 SIS Module Planning

## Module Summary Workload

### Semester 1

<table>
<thead>
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<tr>
<td>IS2101</td>
<td>Communication, Presentation</td>
<td>Medium</td>
</tr>
<tr>
<td>CS2040</td>
<td>Java, Data Structures, Algorithms, Problem Solving</td>
<td>Very Heavy</td>
</tr>
<tr>
<td>Any UE/GE</td>
<td>Choose something interesting!</td>
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</table>

*These mods are from the old syllabus. May not apply to you!
IS in Y2- Honing Skill

- Core IS Modules (IS2102/IS2103/IS3106)
- Modules are progressive make sure you don’t just cram and throw away!
- You can start creating meaningful Projects for portfolio in modules

Foundational Computing Modules

Deep Dive into Core IS Modules

Higher level Modules (3k/4k)

Internship Experience

Overseas Experience (NOC/SEP)

Capstone Project

Programme Electives

FYP/Dissertation (If not Internship)
IS in Y3- Exploratory Year

- Fulfilling of Internship Requirements
- Exchange or NOC Program
- Capstone Project (building on Y2 mods)
- Get started on exploring the various IS Programme Electives

Foundational Computing Modules
- Deep Dive into Core IS Modules
- Higher level Modules (3k/4k)

Programme Electives
- Internship Experience
- Overseas Experience (NOC/SEP)
- Capstone Project
- FYP/Dissertation (If not Internship)
IS in Y4 - Ready to Graduate!

- Internship Experience (If not done)
- Dissertation - for those who want to do FYP
- Completion of Programme Electives
- Looking for Jobs - confirming what you want to do in the future!

Foundational Computing Modules
Deep Dive into Core IS Modules
Higher level Modules (3k/4k)

Internship Experience
Overseas Experience (NOC/SEP)
Capstone Project
Programme Electives

Internship Experience (If not Internship)
FYP/Dissertation
Programme Electives

Looking for Jobs - confirming what you want to do in the future!
What’s IS future like?

More Computing
- Enterprise Systems Developer
- Solutions Architect
- Software Engineer
- Technical Analyst
- Systems Engineer
- DevOps

More Management
- Technical Project Manager
- Product Manager
- Technology Consultant
- Business Analyst
- Financial Analyst
- UI/UX Designer
- IT Specialist
My advice for IS juniors...

**Explore!** There are a wide variety of Information Systems modules and electives to choose from, don’t be afraid to try them out!

**Be Open!** IS modules opens doors to many industries and job scopes, be open to trying all roles from technical - to less technical, leverage on this opportunity!

**Build!** IS is a very practical major - we do many projects, all of which can be used for your portfolio!

**Apply!** A lot of things taught in IS are very workforce centered, pick up Internships to more effectively apply what you’ve learnt in IS!
03

Internships

How can I land my first one?
How to land an internship?

**Think**
What am I interested in?
What do I want to explore?

**Source**
NUS TalentConnect, LinkedIn
Be open-minded!

**Prepare**
Prepare your Resumes (SoC Career Services)
Prep Leetcode!

**Interview**
Make sure you do some research on your role, company beforehand!
Technical test → Functional Interview → Case study → Culture/Fit interview (varies by company)

**Secure!**
ATAP/IIP?
Plan and get approval for it early!
Internship Sharing

Roy

Programmer Intern
(Pre-Year 1)
- Front-end Development

Technology Consulting Intern
(Y1 Summer)
- Technology Management
- Solutions Architecting

Product Management Intern
(Y2 Summer)
- Agile Frameworks
- Product Design

Abhishek

IT & Ops Consultant
(Pre-Year 1 & YIS1)
- Business Development
- Operations

Data Intern
(Y1 Summer)
- Data Analytics
- Data Visualisation

Product Development Intern
(Y2 Summer)
- Front-end Development
- Natural Language Processing
How to make the best out of your time in university?
What do you want out of Uni?

9999999999 things you can do, but there’s only 4 years in University

**Make friends**
- Join Non-Academic CCAs / Interest Groups
- Join Camps

**Create Impact**
- Join Faculty Clubs
- Volunteer/ TA -work

**Shape Your Future**
- Go for Hackathons/ Competitions
- Join Academic CCAs
Non-Academic CCAs
Academic/Career Related CCAs

- Make lasting friendships and connections
- Pick up practical skills
- Hone leadership and soft skills
- Build on your portfolio and career

NUS Students’ Computing Club
NUS FINTECH Society
NUS GDG
NUS Hackers
NUS Investment Society
Conjunct Consulting
NUS Entrepreneurship Society
DSC
Business Analytics Consulting Team
NUS College
Managing Expectations

Final words and encouragement
You’re a star

- You made it in **NUS SoC**, the top university in Asia and one of the world’s best computing schools.
- The competition may be tough but don’t be discouraged, focus on what you can do; **don’t let grades define you**

https://www.nodeflair.com/blog/singapore
What we figured out on the way...

- If you’re not doing well for studies, do some internships. Can’t find internships, then do some projects. No time for projects, then focus on grades!
- Most importantly, take sufficient breaks!
- Speak to senior/peers/professors if you’re struggling. We’re here to lend a listening ear, and provide some guidance if needed!
Uni Hacks & Tips

- Get a Second Monitor (super useful). Keyboard and mouse if you’d like
- NUS emails are super important! Lots of opportunities
- Check out tele groups for good deals and opportunities
- Use Notion, TickTick or some planning tool to manage your time
- Friends/Profs & Stack Overflow are your best resource
- Check out free courses and certifications on Coursera, edX, etc
- Create and maintain connections with prof and established personnel you meet
05

Useful Tools

Take out your phones, it's time to take notes...
Acad Related Tools

**NUSMods**
- Look up Mod Details
- Plan timetable
- Plan modules over the semester
- See Student Reviews

**EduRec**
- Admin portal for NUS students
- Do ModReg over here
- Apply for SEP/NOC here

**Canvas**
- Main area where you retrieve/download module content
- Any announcements from prof will be here
- Do exams/quizzes
Other Freshmen Resources!

Apps To Download

- uNivUS
  Any auxiliary tools (fet test, crowd insights) are here!

- NUS NextbUS
  Check bus timings so you won’t be late for lectures!

Insta Accounts to Follow

- @nuscomputing
- @nuscomputingclub
- @socfop

Tele Groups to Join

- IS Freshmen Chat
- BZA Freshmen Chat
- SOC Freshmen Chat
- Computing Club Channel
Other useful links

Job Intern Search
nus-csm.symplicity.com
www.internsg.com
www.linkedin.com
www.glassdoor.com
glints.com/sg

Financial Aid + Scholarships
http://www.nus.edu.sg/oam/financial-aid

Course Schedule (AY22/23)
https://www.comp.nus.edu.sg/cugresource/soc-sched/

NOC Program
https://enterprise.nus.edu.sg/education-programmes/nus-overseas-colleges/

Free Coursera Acc
https://wiki.nus.edu.sg/display/cit/Coursera+FAQs

Free Microsoft Office
https://nusit.nus.edu.sg/services/software_and_os/software/software-for-student/#install-office

Interest Groups
https://nus.campuslabs.com/engage

Massive Library of Info
https://github.com/nushackers/notes-to-cs-freshmen-from-the-future

General Freshmen Guide
Lots of useful links and resources (Cred. FOW O'Comm'21)
Ask away!

**Connect w Roy**

Telegram: @SweeHengCakesNBread

Email: roy.chua@u.nus.edu

LinkedIn:

**Ask me about...**

- Interactive Media Dev Minor (UIUX Design)
- NOC Program
- Language Mods
- NUS CCAs, Leadership

**Connect w Abhi**

Telegram: @abhishekjainz

Email: abhishek.jain@u.nus.edu

LinkedIn:

**Ask me about...**

- Campus Living
- Biz Minors/Majors
- CCAs, Leadership
- Hackathons
- Resume/portfolio building
Annex

Because we did too many slides...
### Year 1 Modules (IS & BZA)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Workload Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT1101</td>
<td>Introduction to Business Analytics</td>
<td>Medium to heavy Workload</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Learn descriptive and predictive analytics in R</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Box whisker plots, line charts, clustering, linear &amp; logistic regression, hypothesis testing, etc</td>
</tr>
<tr>
<td>MA1521</td>
<td>Calculus for Computing</td>
<td>Light Workload (Long lectures but manageable content)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rather easy to understand if you took H2 Math</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Practice makes perfect!</td>
</tr>
<tr>
<td>IS1103</td>
<td>Ethics in Computing</td>
<td>Light Workload</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Impact of technology, ethical considerations for implementing tech, introduction to innovation and app creation</td>
</tr>
<tr>
<td>IS2101</td>
<td>Business And Technical Communication</td>
<td>Medium Workload</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Many assignments to complete, but manageable difficulty</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Letter writing, presentation, essay writing</td>
</tr>
</tbody>
</table>
ST2334 - Probability and Statistics
- Medium Workload
- Similar to H2 Math Stats, but more topics
- Statistics, distributions, easier content, difficult to score due to bell curve and potential mistakes

BT2102 - Data Management and Visualisation
- Medium Workload
- Learn SQL which is a database language for querying & Data Visualisation using Tableau
- Project-based module so it’s good to find a group of friends for this

CS2030 - Programming Methodology II
- Heavy Workload
- Learn Object Oriented Programming and Functional Programming with Java

CS2040 - Data Structures and Algorithms
- Heavy Workload
- Key module for technical tests as it focuses on code efficiency
- Try all the questions yourself first. When in doubt, just ask
Year 1 Modules

CS1010S - Programming Methodology I
- VERY Heavy Workload (Possibly heaviest module you’ll take in Y1)
- You’ll learn efficient programming, logic, Object Oriented Programming in Python
- Very important to find a group of friends to journey with.

MA2001 - Linear Algebra I
- Heavy Workload
- Important for ML concepts in future mods
- Lots of proving, symbols, notations and concepts to digest; so do it with friends!

BT2101 - Decision Making Methods and Tools
- Medium Workload
- Econometrics with python, pandas, etc (greater focus on theory)
Year 1 Modules IS

CS1010J - Programming Methodology I
- Moderate Workload (Most chill 1010 out there)

IS2102 - Enterprise Systems Architecture & Design
- Heavy Workload
- Important for ML concepts in future mods
- Lots of proving, symbols, notations and concepts to digest; so do it with friends!

BT2101 - Decision Making Methods and Tools
- Medium Workload
Plausible Uni Plans (BZA)

*disclaimer that uni life varies a lot, this is just one suggestion!

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summer</strong></td>
<td>● Relax! Congrats for surviving 1/4 years in Uni!</td>
</tr>
<tr>
<td></td>
<td>● Do orbital</td>
</tr>
<tr>
<td></td>
<td>● Participate in Camps (Be OGL, OComm)</td>
</tr>
<tr>
<td></td>
<td>● Take on Internships</td>
</tr>
<tr>
<td></td>
<td>● Plan your academic plan properly</td>
</tr>
<tr>
<td></td>
<td>● This is when the rigour of BZA modules really pick up! Pace yourself</td>
</tr>
<tr>
<td></td>
<td>● and plan properly to have a balance of light and heavy modules</td>
</tr>
<tr>
<td></td>
<td>● Manage leadership commitments if any</td>
</tr>
<tr>
<td></td>
<td>● Make good friends!: Crucial for Projects!</td>
</tr>
<tr>
<td></td>
<td>● Join hackathons and competitions</td>
</tr>
<tr>
<td></td>
<td>● Become TAs (Earn some $$$ to get out of being a broke college kid)</td>
</tr>
<tr>
<td></td>
<td>● Look out for SEP and NOC applications!</td>
</tr>
<tr>
<td></td>
<td>● Practice Leetcode and refine resume for Internship Applications!</td>
</tr>
</tbody>
</table>

**Abhi’ Experience**

- RVRC House Comm & CSC
- RVRC Tennis!
- Join NUS StartIT
- Part-time internship at Affinidi
- OComm for Computing Orientation
- Did Internship at AXA
- Did Orbital
- RVRC Tennis!
- VP in Computing Club
- GenSec in NUS VeGe
- Continued in NUS StartIT
- NUS Conjunct Consulting Trainee
- Won my first hackathon!
<table>
<thead>
<tr>
<th>Year 2 Summer</th>
<th>Year 3</th>
<th>Year 3 Summer</th>
<th>Year 4</th>
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</table>
| ● Do Internships - explore a role you are interested in!  
● Fulfil your ATAP/IIP Requirements  
● Do side projects, focus on CCAs | ● People typically go for exchange/NOC, do ATAP & IIP here  
● Recommended to do IS Capstone Project here  
● Be aware of your interests and area to focus on - Take Programme Electives relevant to your interest  
● In Y3S2 - apply for dissertation! | ● Crucial Internship, most companies look to convert Y3 Summer students to full-time role!  
● Do side projects, built portfolio and experience in area of interest! | ● Do FYP/Dissertation (If you are doing it over ATAP/IIP)  
● Practice Leetcode, Interviews and apply for jobs!  
● Y4 is relatively chill as compared to Y2/Y3, enjoy your last year of being a student :) - join clubs, try stuff you wouldn't have otherwise or missed out on! |

*disclaimer that uni life varies a lot, this is just one suggestion!*

- Intern at SGInnovate (Deep tech start-ups!)
- NUS Enterprise Summer Programme
- Focus on Computing Club
IS Modules (A Breakdown)

Technical Modules
- CS1010J
- CS2030
- CS2040
- CS/BT2012
- BT1101

Business/Mgmt Modules
- IS1108
- IS2101
- IS3103

IS Main (Tech + Business)
- IS2102
- IS2103
- IS3106

Maths
- ST2334
- MA1312/1521/2002

Core Technical Mods
- Foundational Computing Modules
- Builds knowledge of programming, databases, data structures & algorithms
- Build strong understanding of Computing, best coding practices
IS Modules (A Breakdown)

Technical Modules
- CS1010J
- CS2030
- CS2040
- CS/BT2012
- BT1101

Business/Mgmt Modules
- IS1108
- IS2101
- IS3103

IS Main (Tech + Business)
- IS2102
- IS2103
- IS3106

Maths
- ST2334
- MA1312/1521/2002

Core Mgmt Mods
- How to communicate and manage teams in the tech-world
- Learn the various stakeholders involved in development of technology
- Learn IT management frameworks and workflows

IS4103 Information Systems Capstone Project

GE Modules
Unrestricted Electives

Core Mgmt Mods
- How to communicate and manage teams in the tech-world
- Learn the various stakeholders involved in development of technology
- Learn IT management frameworks and workflows
IS Modules (A Breakdown)

Technical Modules
- CS1010J
- CS2030
- CS2040
- CS/BT2012
- BT1101

Business/Mgmt Modules
- IS1108
- IS2101
- IS3103

IS Main (Tech + Business)
- IS2102
- IS2103
- IS3106

Maths
- ST2334
- MA1312/1521/2002

IS Main Mods
- Enterprise Systems Development
- Full-stack Software Engineering (Frontend + Backend)
- Technical Documentation
  - UML Diagrams: State/Sequence/Class
  - BRD Documentation

GE Modules

Unrestricted Electives

Electives
- Digital Business
  - IS3150
  - IS3261
  - IS4262

- FinTech
  - IS4302
  - IS4226
  - IS4228

- IT Solutioning
  - IS4100
  - IS4204
  - CS2105

- IT Security
  - CS2107
  - IS4231
  - IS4238

- IT Innovation
  - IS3251
  - IS4261
  - IS4242
IS Modules (A Breakdown)

Technical Modules
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Unrestricted Electives

IS4103 Information Systems Capstone Project

IS Main Mods

IS 2102
Technical Documentation

IS 2103
Backend SWE

IS 3106
Backend + Frontend SWE

IS4103
Documentation + Fullstack SWE (Everything Yay!)
**IS Modules (A Breakdown)**

**Technical Modules**
- CS1010J
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**Maths Mods**
- Build strong foundational understanding of Calculus and Statistics
- Calculus: Useful in understanding Algos
- Statistics: Useful in understanding/evaluating Data
IS Modules (A Breakdown)

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GE Modules

Unrestricted Electives

Core

Electives

IS4103 Information Systems Capstone Project

Capstone Project

- Cumulation of everything from your Core IS Modules!
- Independent Project (You dictate what you want to do!)
- Get opp to work and develop a real life project
**Dissertation/Internship**

- **Dissertation**: For those passionate about doing research/further studies in any IS-related fields
- **Internship**: Apply learnings and gain more practical experience

---

![CP4101 B.Comp Dissertation / Industrial Experience Req](image)

**CORE**

- **Digital Business**
  - IS3150
  - IS3261
  - IS4262

- **FinTech**
  - IS4302
  - IS4226
  - IS4228

- **IT Solutioning**
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  - IS4301

- **IT Security**
  - CS2107
  - IS4231
  - IS4238

- **IT Innovation**
  - IS3251
  - IS4261
  - IS4242

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**ELECTIVES**

- Any 5:
  - Digital Business
    - IS3150
    - IS3261
    - IS4262
  - FinTech
    - IS4302
    - IS4226
    - IS4228
  - IT Solutioning
    - IS4100
    - IS4204
    - CS2105
    - IS4301
  - IT Security
    - CS2107
    - IS4231
    - IS4238
  - IT Innovation
    - IS3251
    - IS4261
    - IS4242
Electives

Very broad range of electives -

- Digital Business: Product Management/Digital Media Marketing
- FinTech: Web3/Blockchain/Trading Systems
- IT Solutioning: IT Project Management/Solutioning for Metaverse, AI, Healthcare
- IT Security: InfoSec Management/Strategic Cybersecurity
# IS Modules (A Breakdown)

## Technical Modules
- CS1010J

## Business/Mgmt Modules
- CS2030
- CS2040
- CS/BT2012
- BT1101

## IS Main (Tech + Business)
- IS2102
- IS2103
- IS3106

## Maths
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- MA1312/1521/2002

## C O R E
- CP4101 B.Comp Dissertation / Industrial Experience Req
- IS4103 Information Systems Capstone Project

## GE Modules
- Unrestricted

## Electives
- Digital Business
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## GEs + UEs
- **GEs**: General Education Modules
- **UEs**: Take anything you want! Can be used to fulfill minors, second majors, or just to take any mods you are interested in! (e.g. language mods)
## Year 1

- The uni pace takes some getting used to: take a balance between technical as well as mgmt/light modules.
- Make friends! Join CCAs, join Camps, and explore the many CCAs NUS has to offer!
- Take foundation/core modules seriously, will be helpful for future modules.

### Y1 Summer

<table>
<thead>
<tr>
<th>In order of Importance</th>
<th>Roy’s Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relax! Congrats for surviving 1/4 years in Uni!</td>
<td>- Join NUS Volleyball Club, NUS Voices</td>
</tr>
<tr>
<td>Do orbital</td>
<td>- Join 180 DC Consulting Accelerate Program</td>
</tr>
<tr>
<td>Participate in Camps (Be OGL, OComm)</td>
<td>- OComm for Computing Orientation</td>
</tr>
<tr>
<td>Take on Internships</td>
<td>- Did Internship at EY</td>
</tr>
<tr>
<td>-</td>
<td>- Did Orbital</td>
</tr>
</tbody>
</table>

## Year 2

- Plan your acad plan properly*
- This is when the rigour of IS modules really pick up! Pace yourself and plan properly to have a balance of light and heavy modules.
- Manage leadership commitments if any
- Make good friends!: Crucial for IS Projects!
- Join hackathons and competitions
- Become TAs (Earn some $$$ to get out of being a broke college kid)
- Look out for SEP and NOC applications!
- Prep Leetcode and resume for Internship Applications!

### Roy’s Experience

- Join NES, NUS WS, Computing Club
- EXCO of NUS VB
- VP in Computing Club
- Join N-House (KR Hall)
- Applied to NOC Program
- Participated in Hackathons

*disclaimer that uni life varies a lot, this is just one suggestion!
<table>
<thead>
<tr>
<th>Year 2 Summer</th>
<th>Year 3</th>
<th>Year 3 Summer</th>
<th>Year 4</th>
</tr>
</thead>
</table>
| ● Do Internship - explore a role you are interested in!  
● Fulfil your ATAP/IIP Requirements  
● Do side projects, focus on CCAs | ● People typically go for exchange/NOC, do ATAP & IIP here  
● Recommended to do IS Capstone Project here  
● Be aware of your interests and area to focus on - Take Programme Electives relevant to your interest  
● In Y3S2 - apply for dissertation! | ● Crucial Internship, most companies look to convert Y3 Summer students to full-time role!  
● Do side projects, built portfolio and experience in area of interest! | ● Do FYP/Dissertation (If you are doing it over ATAP/IIP)  
● Practice Leetcode, Interviews and apply for jobs!  
● Y4 is relatively chill as compared to Y2/Y3, enjoy your last year of being a student :) - join clubs, try stuff you wouldn’t have otherwise or missed out on! |
| ● Intern at Startup in interested Role  
● Focus on Computing Club | | |