



ngee ann
polytechnic



**school of
life sciences
& chemical
technology**



Re-code Your DNA

Common Science Programme Briefing

Freshmen Orientation Programme, 9 April 2024



Common Science Programme

Course Briefing, April 2024



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Common Science Programme Coordinator

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Overview of Briefing

Part 1: Common Science Programme

- What is CSP and what it consists of?
- Timeline and selection of courses

Part 2: My Study

- Curriculum Structure & Modules in Apr 2024 semester
- Academic Calendar
- Advisors and Lecturers
- Preparing for the current Semester
- Attendance, Punctuality & Grade Cap Policy

PART 1: Common Science Programme

What is Common Science Programme?

Gain industry-relevant **knowledge and skills** to explore a career in the biomedical, biotechnology, pharmaceutical or biopharmaceutical field

COMMON SCIENCE PROGRAMME

Our unique **Diploma Exposure Programme** will help you make an informed course choice at the end of the first semester

BIOMEDICAL SCIENCE



PHARMACEUTICAL SCIENCE



Diploma Exposure Programme

Extensive curated **e-Learning packages** and **workshops** offered to students pursuing CSP

Provide a comprehensive understanding of the various aspects of subject matters and career perspectives in the Biomedical Science and Pharmaceutical Science courses.

E-Learning Packages

- BMS e-Learning package (3 x 40min)
- PHARM e-Learning package (3 x 40min)

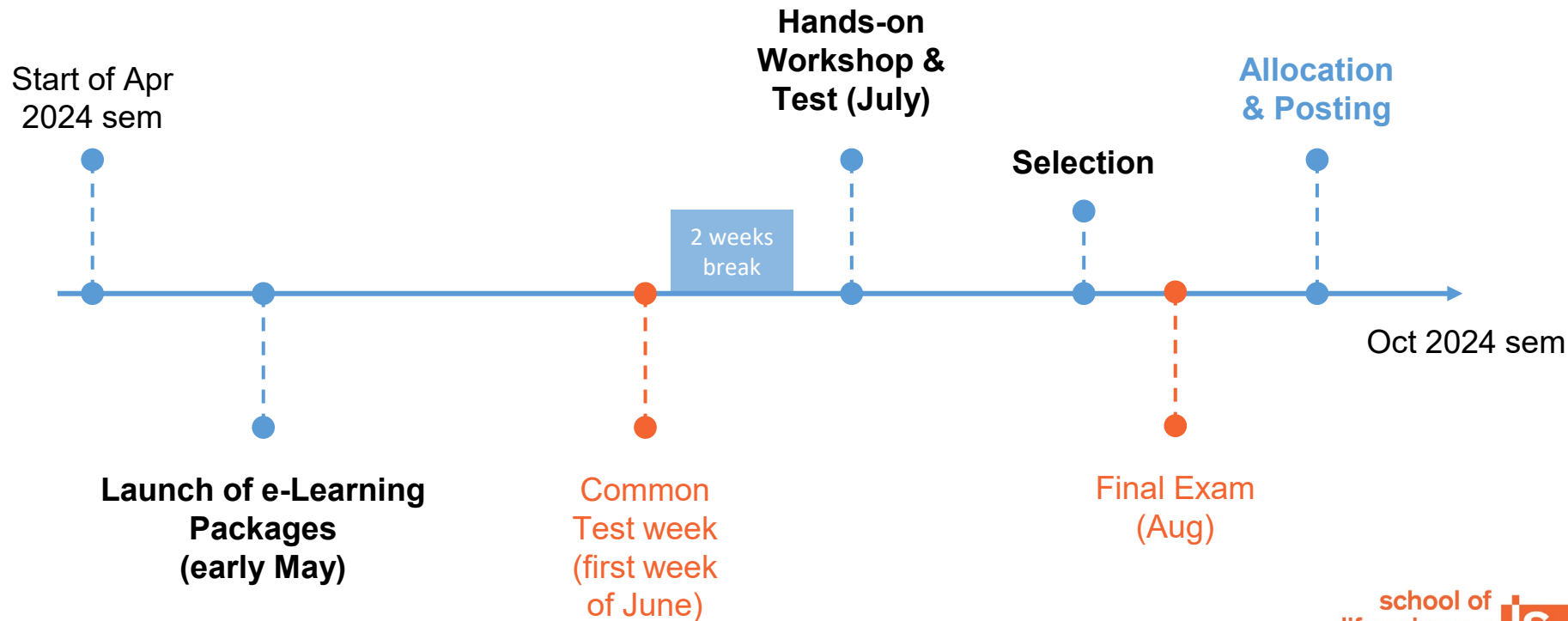
(Available in Brightspace, [1CCP1CS](#) from early [May](#))

Hands-on Workshops

- BMS Hands-on Workshop (Half Day)
- PHARM Hands-on Workshop (Half Day)

Final Test ([July](#))

Timeline in Apr 2024 sem – What to expect



What's next after Common Science Programme?

My next semester - BMS or PHARM?

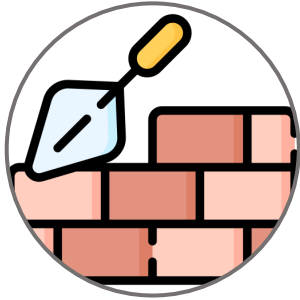
Selection based on:

- Interest
- GPA
- Diploma Exposure Programme* Results
- Interview

**Final test after hands-on workshops in July 2024*

PART 2: My Study

Curriculum Structure



Foundation

Year One

Establishing strong fundamentals

1.1 – CSP

1.2 – BMS or PHARM

IS modules – Health & Wellness,
Communication Essentials,
Innovation Made Possible



Applied Learning

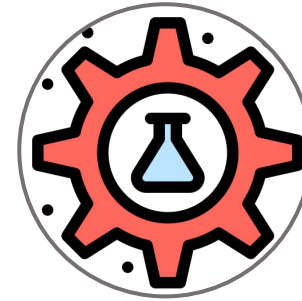
Year Two

Deepen and broaden with application of fundamentals

2.1 – BMS or PHARM

2.2 – BMS or PHARM

IS modules – World Issues
Singapore Perspectives



Real World Learning

Year Three

Enable real world application

3.1 – BMS or PHARM

3.2 – BMS or PHARM

IS module – Project ID

My Modules (Level 1.1)

Examinable Modules

1. [Inorganic & Physical Chemistry](#) (1IPCCSP, 5 Credit Units)
2. [Cell Biology & Genetics](#) (1CBLCSP, 4 Credit Units)
3. [Mathematics](#) (1MATHCS, 3 Credit Units)

Continuous Assessment Modules

1. [Biosafety & Risk Management](#) (1BRMCSP, 2 Credit Units)
2. [Career & Professional Preparation I](#) (1CPP1CS, 1 Credit Unit)
3. [Communication Essentials](#) (COMMS, 3 Credit Units)

Academic Calendar (April 2024 semester)

April 2024 Semester 1	
Teaching Weeks	15 Apr 2024 to 9 Jun 2024
Break	10 Jun 2024 to 23 Jun 2024
Teaching Weeks	24 Jun 2024 to 11 Aug 2024
Study & Examination Weeks	12 Aug 2024 to 25 Aug 2024
Vacation	26 Aug 2024 to 13 Oct 2024

Avoid scheduling any personal activities or family holidays for this period

Example of Lesson & Assessment Plan for a Module

DIPLOMA: BIOMEDICAL SCIENCE

MODULE: ORGANIC CHEMISTRY LEVEL: 1

Oct 2022 – Mar 2023 LESSON & ASSESSMENT PLAN

Week	Dates	Lecture Topics	Practical Sessions	Misc.
1	17 – 23 Oct	Topic 1A – Introduction to module (OAL)	No Practical	
2	24 – 30 Oct	Topic 1B – Introduction to module (OAL)	Assignment	Deepavali (Mon, 24 Oct)
3	31 Oct – 6 Nov	Topic 2A – Chems sketch (OAL) Topic 2B – Isomers (OAL)	Practical 4 & 5 (F2F)	
4	7 – 13 Nov	Topic 2C – Enantiomers (OAL) Topic 2D – Biological Molecules (OAL)	Practical 4 & 5 (F2F)	
5	14 – 20 Nov	Topic 3A&B – Stability and Resonance (OAL)	Practical 4 & 5 & Models (F2F)	

Assessment Mode: <input type="checkbox"/> Examinable	<input type="checkbox"/> Continuous Assessment
Assessment Component	Weightage
a. Exam	40%
b. Practical	20%
d. Tutorials	20%
e. Common Test	20%

Advisors (Common Science Programme)



Dr Geeta Bansal (CSP01)
(1CPP1, 2BRM)



Dr Wayne Forday (CSP02)
(1CPP1)

- Every student is assigned an Advisor who will journey with you
- Your Advisor will guide you as part of Education & Career Guidance (**ECG**) in NP
- Main **point of contact** for you should you need help, information or advice

Support

Module Leader / Tutor

- Every module is led by a lead lecturer known as the **Module Leader**
- Some modules are co-taught by multiple lecturers, known as **tutors**
- For **module-related matters**, please check with your ML or tutor

Counsellors

- Everyone goes through ups and downs
- You can make an appointment to speak with a counsellor from the NP Student & Alumni Services (**SAS**) at **6460 6777**

<https://www.np.edu.sg/student-services/education-career-coaching>

Lecturers (Common Science Programme)



Dr Eddie Ong
Module Leader
CELL BIOLOGY &
GENETICS (**1CBL**)



Dr Teoh Chun Ming
Module Leader
INORGANIC & PHYSICAL
CHEMISTRY (**1IPC**)



Dr Ng Hui Li
1IPC, P01



Ms Ho Huixian Olivia
1IPC, P02

Lecturers (Common Science Programme)



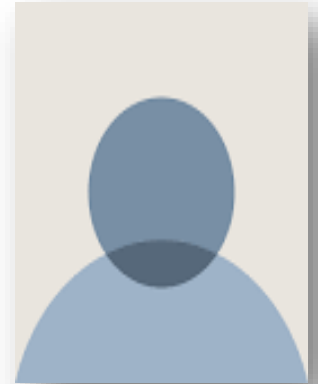
Dr Huang Yinyi
Module Leader
BIOSAFETY & RISK
MANAGEMENT (**2BRM**)



Mr Hamdan Hamid
2BRM, T01



Dr Geeta Bansal
2BRM, T02



Mr Herbert
Module Leader,
MATHEMATICS (**1MATH**)

In April 2024 semester...

LECTURES

- Online Aynchronous Lectures (OAL)
- No face-to face, except for first 3 weeks
- Not time-tabled

TUTORIAL/PRACTICAL (IPL@Classroom/Labs)

- Face-to-face
- Exception may happen – depends on the modules

IN-PERSON LEARNING (IPL)

- Face-to face
- Online synchronous
- Not time-tabled – Lecturers will schedule

- You will be guided (but you have to be disciplined to do self-study)
- You will have access to help.
- You can reach your lecturers through Teams chats or emails

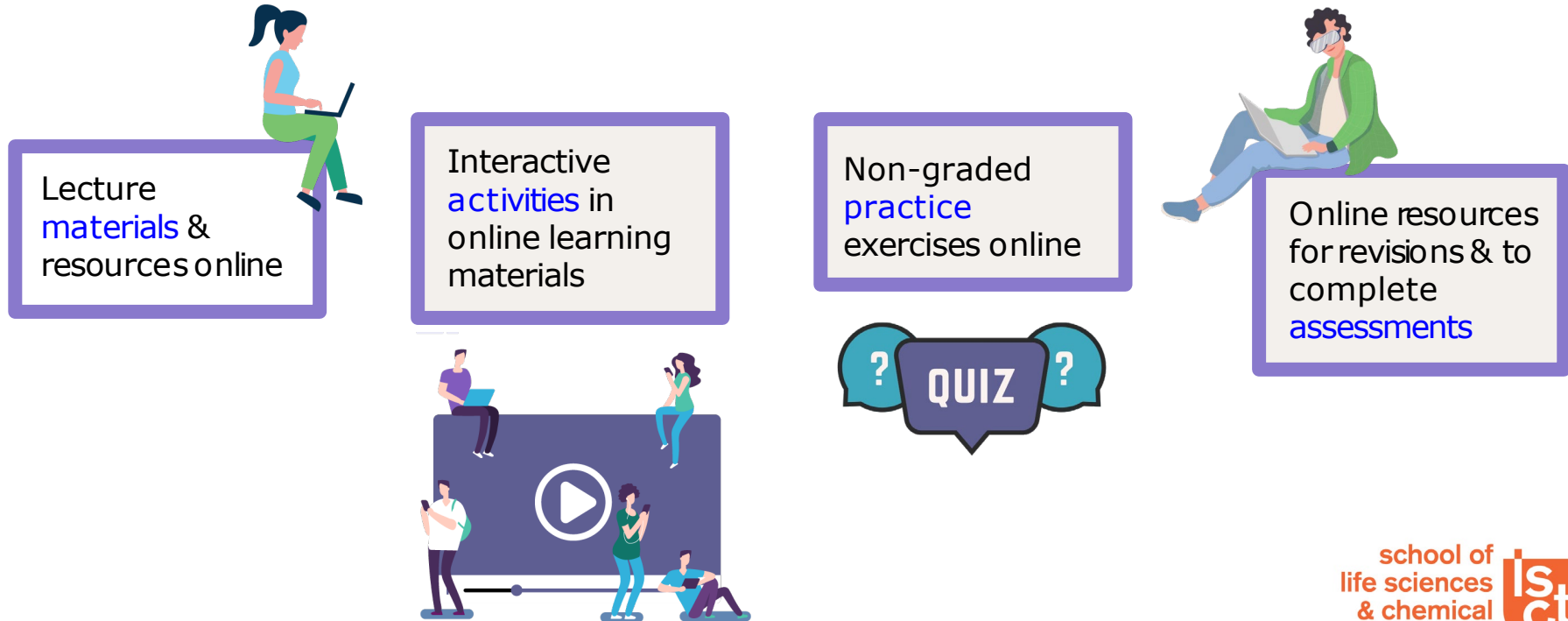
Learning Management System – NP Brightspace

- <https://politemall.polite.edu.sg/catalog?pagename=Home>
- Your lecturers will post your weekly announcement, **lesson plan**, **lecture slides**, **tutorial worksheets**, **lab manual** & **assignments** on it.

The screenshot displays the NP Brightspace LMS interface for Ngee Ann Polytechnic. At the top, the Ngee Ann Polytechnic logo is on the left, and navigation icons (grid, mail, chat, bell) and the user profile 'TN TAI MIN HOOI NP' are on the right. Below this is a dark blue navigation bar with links: 'Quick Eval', 'Data Access', 'Instructor Quick Start Guides', 'More Resources', and 'Go to POLITEMall Courses'. The main banner features an aerial view of the campus with the text 'Ngee Ann Polytechnic'. Below the banner, there are two main sections: 'My Courses' and 'Announcements'. The 'My Courses' section has tabs for 'All', '22S1', 'Brightspace', and 'Non-Term', with 'Brightspace' selected. Below the tabs are two landscape images. The 'Announcements' section has a dropdown arrow and a title 'Welcome to NP Brightspace' with a close button. The announcement text reads: 'You can now rework/create your content in NP POLITEMall (Brightspace) and be ready for the NP-wide rollout in April 2022. With the intuitive user interface of Brightspace, we'.

1. Lectures / Online Aynschronous Lesson (OAL)

Online learning packages with **flexibility** to complete in your own time **pre**-tutorial/practical:



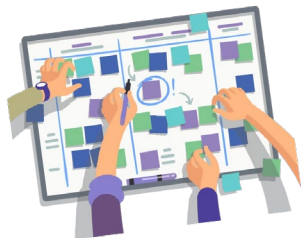
2. Tutorial (in-person)

Applied and collaborative activities which may include:

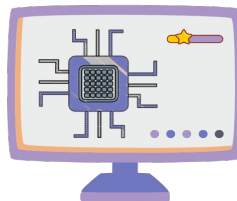


Communication
with lecturers

Collaborative
learning activities
with peers



Non-graded/
graded practice
exercises online

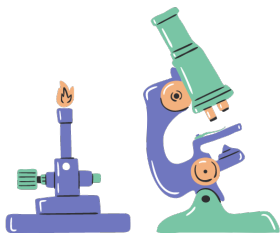


Online resources
for revision and
to complete
assessments

3. Practical (in-person)

Applied learning and in specialised facilities:

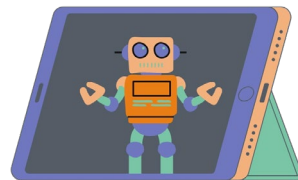
Applications /
Experiments



Pre-Practical
interactive
online resources
& activities



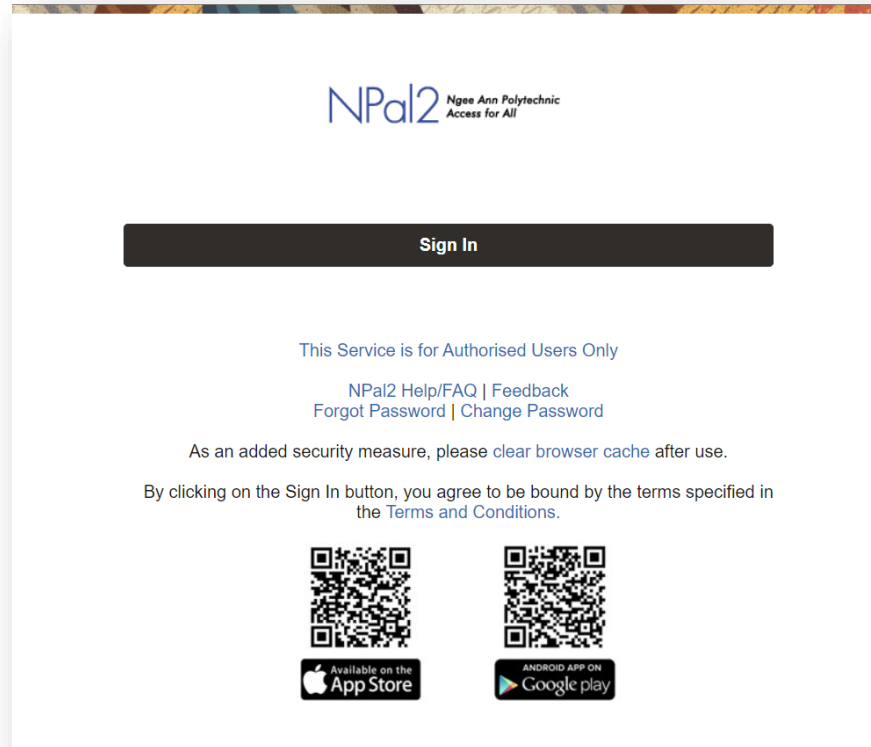
Additional
simulated
practicals online



Practical
reports/Lab
Test

NPal Student Portal

<https://npalstudent.np.edu.sg>



The screenshot shows the NPAl2 Student Portal login page. At the top center is the NPAl2 logo with the tagline "Ngee Ann Polytechnic Access for All". Below the logo is a large black button with the text "Sign In". Underneath the button, the text reads "This Service is for Authorised Users Only". Below this, there are two links: "NPAl2 Help/FAQ | Feedback" and "Forgot Password | Change Password". A security notice follows: "As an added security measure, please clear browser cache after use." Below the notice is a disclaimer: "By clicking on the Sign In button, you agree to be bound by the terms specified in the Terms and Conditions." At the bottom, there are two QR codes. The left QR code is for the App Store, with the text "Available on the App Store" below it. The right QR code is for Google Play, with the text "ANDROID APP ON Google play" below it.

NPal Student Portal – Landing Page

The screenshot shows the NPAl Student Portal landing page. The header includes the NPAl2 logo (Ngee Ann Polytechnic, Access for All) and navigation links: Home, Add to Favorites, T&C, Report Vulnerability, FAQs, Contact Us, and Sign Out. Below the header is a 'Favorites' section with 'Main Menu' selected. The main content area is divided into several sections:

- My School's Announcement/Event**: A table with columns 'Message' and 'By'. A red circle highlights the 'Message' header.
- Campus Announcement**: A table with columns 'Message' and 'By'. A red circle highlights the 'Message' header.
- Campus Event**: A table with columns 'Message' and 'By'.
- Menu**: A search bar and a 'Self Service' link.
- Student Self Service**: A grid of service categories, each with a red circle around its title:
 - Academic Matters**: Inquire on your academic progress, as well as matters related to your academic career. Links include: My Academic Profile, Absence Summary, Submit MC/Leave Request, Exam Results (Current), Exam Results (History), Statement of Results, Staff Directory Search, Module Catalog, My Advisor, and 7 More...
 - Elective Preference Ranking**: Links include: IS Elective Ranking & Balloting, S&W Activity Pref Ranking, and Generic Ranking/Registration.
 - Student Development**: View your CCA records. Sign up for EPs and view list of EPs here also. Links include: Catalyst, Sign Up for CCA, CCA PEARLS, Club Attendance and Membership, NAPFA, and Enrichment Programme (EP).
 - My Personal Profile**: Maintain your personal information. Links include: Addresses, Phone Numbers, Email Addresses, Emergency Contacts, Demographic Information, Household Details, and Relationship Details.
 - Financial Services**: View your financial account, make payments/claims. Also allows you to make applications for mobile computing loans and GIRO. Links include: GIRO Receipts, GIRO Deduction, View Financial Account, Fee Voucher, Internet Transactions, and Scholarships/Bursaries/Grants.
 - Timetable**: Links include: Class Timetable, Weekly Timetable, Individualised Common Test TT, Master Common Test Timetable, Exam Timetable, and Individualised Exam TT.
 - Student Services**: Select a range of services / documents relating to student status, academic matters and CCA records. Links include: Service Request.
 - Internship Management**: Internship Management. Links include: Submit Post Internship Survey and Submit Pre Internship Survey.

Timetable

Online Asynchronous Learning (Self-Paced)				
	Module	Required hours per week	Lecturer	Class
1	CSP 2IPCCSP	1	TEOH CHUN MING	L01
2	CSP 2BRMCSP	2	HUANG YINYI	L01
3	CSP 1CBLCSP	1	ONG HON EDDIE	L01

Online Asynchronous Lesson (OAL)

In-Person Learning (On-Campus)							
Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
8:00AM							
9:00AM	CSP 2IPCCSP 50-05-0002 TEOH CHUN MING T01	CSP 1MATHCS 51-07-0012 MA HUNG SIN, HERBERT T01		CSP 1CBLCSP 80-08-0001 GOH-KOH YIN LIAN P01			
10:00AM	CSP 2BRMCSP 50-05-0002 HAMDAN BIN ABDUL HAMID T01	CSP 1MATHCS 79-00-0000 MA HUNG SIN, HERBERT L01		ONG HON EDDIE P01			
11:00AM							
12:00PM							
1:00PM	PASCARE PCLSCI 51-06-0009 BANSAL GEETA P12			CSP 2IPCCSP 83-07-0004 NG HUI LI P01			
2:00PM	CSP 1CPP1CS 51-06-0009 BANSAL GEETA T01 ODD weeks			CHEE-WONG POH CHEE, CLARA P01			
3:00PM							

Module Catalog

Location

Lecturer

Lesson Type

IMPORTANT!!!

First 3 weeks in Apr semester
In-Person (F2F) Lecture

Exception:
Mathematics
In-Person Lesson (F2F) for Lecture and Tutorial (no OAL)

Grading System

Grade Point Average (GPA)

- Maximum is **4.0**
- Measure of academic standing of a student
- Calculated based on the **graded modules** taken in **that semester**.
- If a module is of **higher credit units** (more no. of hours per week), then it has a **bigger impact on the GPA**.
- **All the modules** are counted in the computation of **cumulative GPA**.

How GPA works?

Grades	Description	Grade Point	Criteria
AD	Distinction	4.0	Top 5%
A+	Excellent	4.0	> 85%
A			80 - 84%
B+	Very Good	3.5	75 - 79%
B		3.0	70 - 74%
C+	Good	2.5	65 - 69%
C		2.0	60 - 64%
D+	Pass	1.5	55 - 59%
D		1.0	50 - 54%
F	Fail	-	0 - 49%
PX	Pass	-	Pass for modules graded as "Pass or Fail"

How is GPA calculated?

- GPA = Grade Point Average
- Calculated based on graded modules taken in the semester
- Current GPA vs. Cumulative GPA

$$\text{Current GPA} = \frac{\text{Sum of (Credit Units x Grade Points)}}{\text{Total credit units for graded modules in the current semester}}$$

How is GPA calculated? (example)

Module	Credit Unit	Grade	Grade points	Credit point X Grade points
Module A	4	AD	4	16
Module B	5	A	4	20
Module C	5	B	3	15
Module D	4	C+	2.5	10
Module E	2	F	0	0
Module F	3	PX	0	0
Total Credit Units enrolled	23			
Less credit units of non-graded module (Module F)	3	TOTAL		61
Total credit units earned for the semester	20			

Grade	Grade Point
AD	4.0
A+	4.0
A	4.0
B+	3.5
B	3.0
C+	2.5
C	2.0
D+	1.5
D	1.0
F	0.0

$$\text{Current GPA} = \frac{\text{Sum of (Credit Units X Grade Points)}}{\text{Total current semester credit units (graded modules)}}$$

$$= \frac{16 + 20 + 15 + 10 + 0}{4 + 5 + 5 + 4 + 2} = 3.05$$

ATTENDANCE, PUNCTUALITY & GRADE CAP POLICY

ATTENDANCE POLICY

Attendance is a key factor in your academic progress. Regular attendance correlates with better results.

- Must meet minimum 70% overall attendance for lectures, tutorials & practicals
- Only valid reasons are accepted for absence from class
- Submit reasons with supporting proofs within two (2) working days
- 1st warning given when attendance falls to 80%
- 2nd and final warning when attendance falls to 73%
- Grade cap kicks in automatically when attendance rate falls below 70%

PUNCTUALITY POLICY

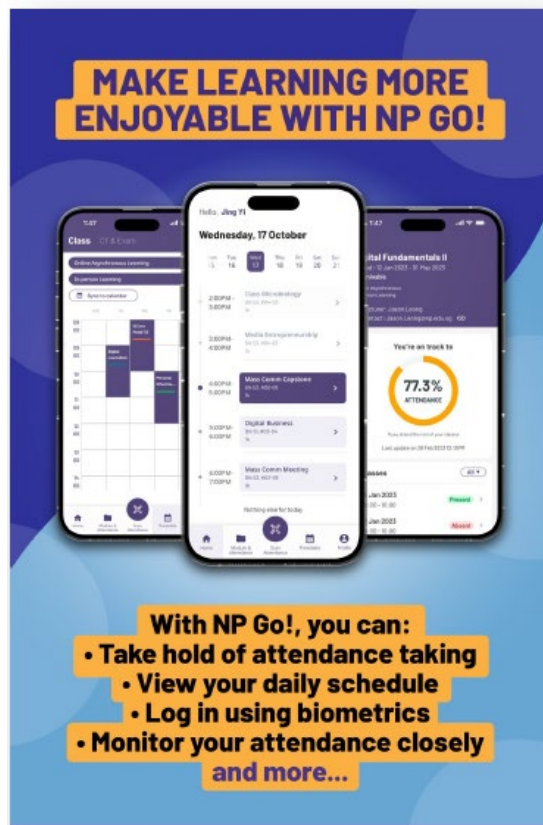
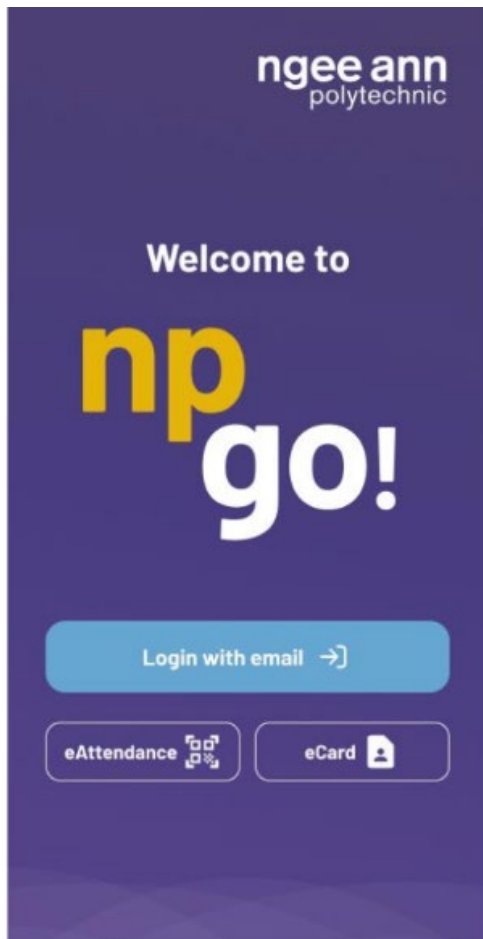
No grace period for attendance-taking in classes

Late without valid reasons will be marked "Absent"

- Being punctual shows **respect for others** and **maximises lesson time for all**.
- **Be self-responsible** in attending classes regularly and punctually.
- **Cultivate good habits** that will serve you well in life.

GRADE CAP POLICY - 4 THINGS TO KNOW

1	Attendance required	Minimum 70% overall attendance
2	Grade Cap	If you pass the module and do not meet the minimum attendance requirement, your module grade will be capped at the passing grade: <ul style="list-style-type: none">- “D” grade for examinable and continuous assessment modules- “PX” grade for modules graded Pass/ Pass with Merit
3	Reasons for absence	Only valid reasons are accepted. Submit them within two (2) working days.
4	Notifications on low attendance	Maximum 2 warnings will be sent to you and your parents/guardians: <ul style="list-style-type: none">- 1st warning when attendance rate falls to 80%- 2nd and <u>final</u> notification when attendance rate falls to 73%- Grade cap kicks in automatically when attendance rate < 70%

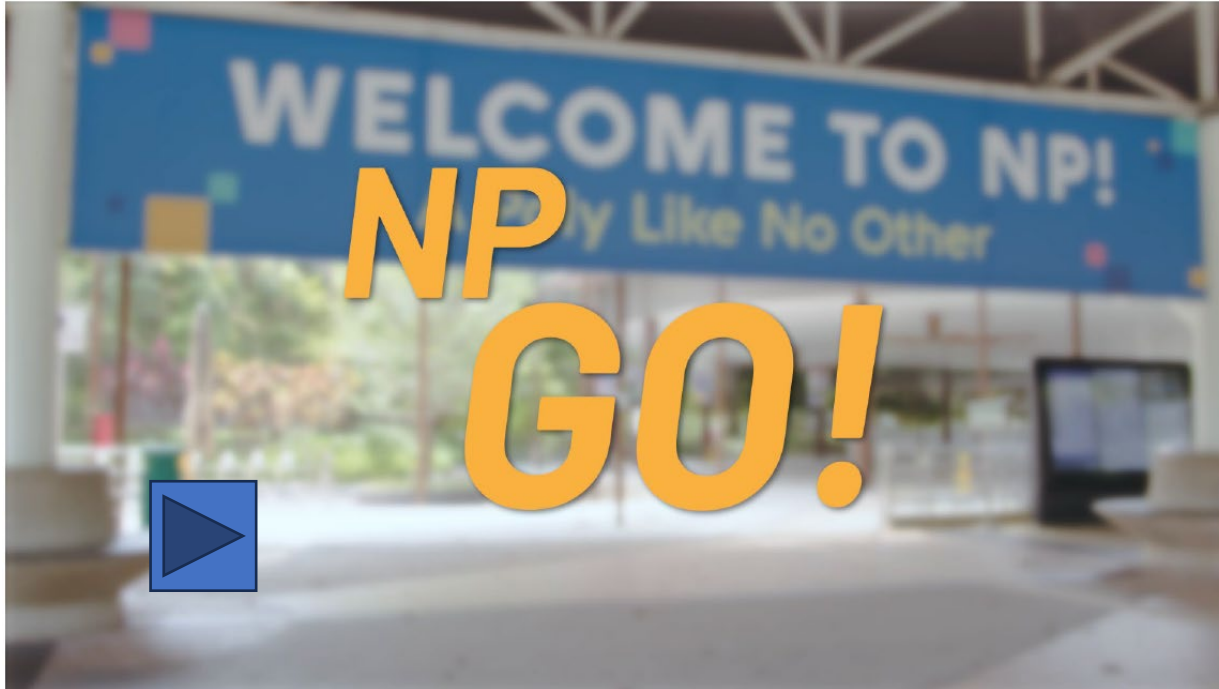


To insert QR Code for NP GO! from Play Store (available earliest 3 April when the apps are released in app stores)

To insert QR Code for NP GO! from App Store (available earliest 3 April when the apps are released in app stores)

Scan the QR code to download NP GO! now

NP GO! Instructional Video for Students



If you encounter any issues with NP GO!, contact IT Helpdesk @ Blk 27 #01-01 (Email: itcare@connect.np.edu.sg)

For Year 1
Freshmen Only

Personalised Learning Pathway (PLP) Programme

Pair Your Diploma with a Minor to Unlock Possibilities



Diploma Certificate

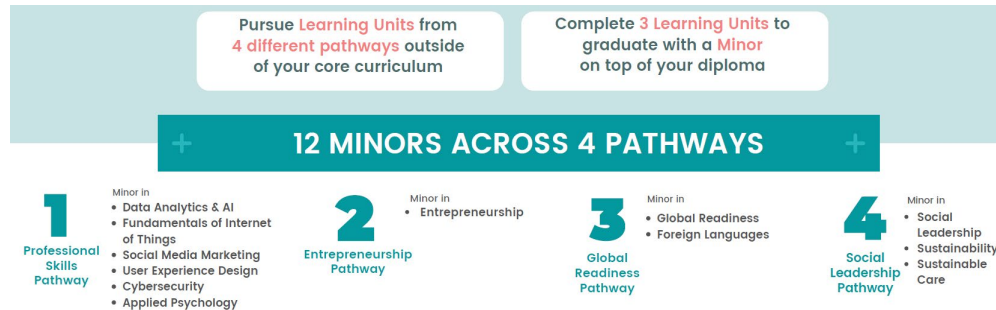


Minor Certificate

What is PLP?

Define and own your learning! PLP is NP's signature programme to enable you to pursue your passion and gain in-demand skills. From applied psychology to data analytics, entrepreneurship to sustainability, the 11 PLP Minors and over 50 Learning Units (LUs) cut across diverse disciplines to give you a wide variety of choices.

You can pursue a dedicated pathway or mix and match LUs, which are bite-sized lessons. Take LUs in areas that pique your interest. Or complete 3 distinct LUs to get a Minor. The choice is yours.



Look out for the invitation email in July 2024 to join our PLP Virtual Roadshow. Find out more about PLP via: <https://www.youtube.com/watch?v=tv5mJLi4FJY>

Personalised Learning Pathway (PLP)

When & How to Apply?

- Watch out for email from School of Interdisciplinary Studies (IS) for application of PLP Learning Units (LUs) timetabled during semester:
 - In July for October semester ([Level 1.2, 2.2, 3.2](#))
 - In January for April semester ([Level 2.1, 3.1](#))
- Watch out for emails for ad-hoc applications of PLP LUs for International Trips, Entrepreneurship, Social Leadership, etc. that would be conducted during term or semester break period
- Start early (i.e. Level 1.2 or Level 2.1) to complete 3 LUs to fulfil the Minor requirement and receive a Minor cert upon graduation (you will receive Enrichment Programme Statement if you complete 1 or 2 LUs).
- More information and FAQs on PLP can be found at Brightspace: <https://for.edu.sg/plp-brightspace>

Common Science Programme Classes

CSP01

Number of Students: 25

Advisor: Dr Geeta Bansal

Practical/Tutorial session: P01/T01

Class Rep: _____

CSP02

Number of Students: 25

Advisor: Dr Wayne Forday

Practical/Tutorial session: P02/T02

Class Rep: _____

NP's Signature Pedagogy

SERVICE-LEARNING

- Apply what you learn in the classroom to meaningful **community projects** that address real needs
- Gain a deeper appreciation of your course of study and hone your critical thinking skills
- Experience personal growth and be inspired to make the world a better place

PROJECT BASED LEARNING - Apply what you learn in the classroom to carry out team **projects throughout the semester**

LAB-BASED LEARNING - **Design** the flows & **perform** laboratory procedures

Digital Life @ Polys: Digital & Media Literacy, Cyber Wellness, Anti-Plagiarism, Copyright, Campus Wellness...

Digital & Media Literacy

- D**etermine the extent of your information needs
- R**etrieve relevant information
- E**valuate online information
- A**cknowledge use of information
- M**anage online information
- S**hare online information

Cyber Wellness

- Personal Identity
- Digital Portfolio
- Digital Threats
- Digital Responsibilities
- Digital Communication
- Digital Protection

Ethical Use of Info

- Copyright
- Plagiarism
- ChatGPT Awareness

Campus Wellness

- Campus safety & health

Computational Thinking

- Abstraction
- Decomposition
- Pattern Recognition, Algorithm
- Design



DIGITAL LIFE @ POLYS™



01

PLAGIARISM, COPYRIGHT AND CHATGPT AWARENESS



DO NOT Plagiarize!

- Online Plagiarism Module (compulsory)
- Plagiarism Quiz
- Plagiarism Declaration


NP Plagiarism rule

- First offence – zero marks
- Second offense – Fail module
- Third offense – Dismissal from Polytechnic

Key Applications



NP Website

- <http://www.np.edu.sg>
- Click on Menu  & scroll thru the left navigation for useful links.

1

NPal Student

<https://npalstudent.np.edu.sg>

2

mStudent

- Mobile version of NPal Student. Scan the QR to install
- Remember to **enable Notification** for the mStudent app so that you don't miss out on important alerts from NP.



3

Student Code of Conduct

<https://www.np.edu.sg/student-life/building-an-inclusive-np-community/code-of-conduct>

Students found infringing the Student Code of Conduct are expected to:

- adhere to the directions of staff personnel
- promptly produce their student cards for identification purposes when requested.
- Students will be subject disciplinary actions and the punitive measures to be imposed may include dismissal, suspension, failure in modules and/or other penalties.

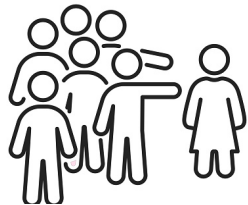
Reporting of Suspected Misconduct

- If a student suspects that another student is acting in violation of the Student Code of Conduct, the student is expected to report the suspected misconduct to his or her academic school or the relevant department (staff advisor, tutor, course chair, mentor) as soon as possible.
- Campus Security at **6460 6999** or Student Care Helpline at **6460 6777**

Building a Positive NP Community

Harmless fun or Hazing?
Banter or Bullying?
Disagreement or Disrespect?

- Know the difference to right the wrong
- 1hr online module on Brightspace
- Enrolment to the module will begin in May
- More information will be sent to students via email



Harmless fun or hazing?

Know the difference to right the wrong

Knowing what constitutes hazing
behaviour will help you to stand up
for yourself and others.

Learn how to respond to inappropriate
behaviours by completing the “Building a
Positive NP Community: My Roles & Values”
online module on MeL today.

A Project by the NP Student Life team

IMPORTANT Reminders!

- ✓ Check your NP **Email regularly** for messages and updates from the School
- ✓ **Check NP Brightspace for module announcement, instructions, lecture slides etc this week.**

Key Contact Persons

CSP Coordinator

- Dr John Zhu (CSP): John_ZHU@np.edu.sg

CSP Advisors

- Dr Geeta Bansal (CSP01): Geeta_BANSAL@np.edu.sg
- Dr Wayne Forday (CPS02): Wayne_FORDAY@np.edu.sg

Course Chairs

- Mr Tai Min Hooi (PHARM): TAI_Min_Hooi@np.edu.sg
- Dr Sujit Dutta (BMS) Sujit_DUTTA@np.edu.sg

THANK YOU...