



Course Briefing Pharmaceutical Science April 2024

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My lecturers (Pharm Sc)



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My lecturers (Pharm Sc)



Ms Olivia Ho Senior Lecturer Senior Manager (Outreach)



Dr. Joanne Lim Senior Lecturer Senior Education Specialist

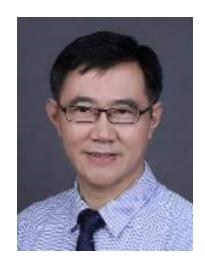


Dr. Ng Hui Li Lecturer

My lecturers (Pharm Sc)



Dr Shanmugam Neviliappan Senior Lecturer SL Specialist



Dr. John Zhu Senior Lecturer/CSP Coordinator



- Freshmen Onboarding 2024Find out more about all the student life opportunities at NP



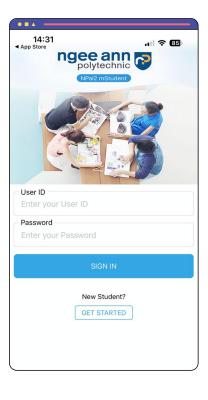
Download the mStudent App/NP GO app

- Timetable, exam schedules and more. Find it on the Apple App or Google Play Stores



Look out for CCA Fiesta 2024 25 - 26 April Atrium

- Sign up for a CCA in NP



M Student App

Access your timetable, exam schedule etc

Find it on Apple or Google Play store





Find it on
Apple or
Google Play
store

Devices



Where can I get info on Notebook Models & Purchase?

You can find recommendations, notebook models, FAQs, brochures and more in the link below:

http://www.np.edu.sg/notebook

Where do I install software for my course?

Go to Software & IT Assist Portal from the link:

http://www.np.edu.sg/software

:: IT Helpdesk On Campus				
HELPDESK CENTRE	LOCATION	SERVICE AREAS		
IT Helpdesk @ Blk 27	Blk 27 #01-01	 - User accounts - Network connectivity - Fault Diagnostic & Advice - IT-related enquiries & assistance Operation Hours Mon to Fri: 8:30 am - 5:30 pm Closed on Weekends and Public Holidays		

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Software Portal

http://www.np.edu.sg/software

Software is personalized to what the student need for their course.

Follow the guide on the Software Portal to download the needed software.

For assistance on services such as passwords and Wi-Fi, click on "IT Services" icon.















NEWS & ANNOUNCEMENTS

Dear Freshmen, Welcome to NP!

Notebook registration starts from 14 Mar 2022 onwards. After enrollment, please wait for a day before registering your notebook and installing software. For user guides, click on the links here: Windows / Mac.

Dear Year 2 & 3 Students,

From 1 Apr 2022, you may download and install the required software. If you have any queries, please write to us at Dora.ITCare@np.edu.sg

Provide the following details:

- * Full Name
- * Student Number
- * Course of Study
- * Contact Number

How Do I Login?

What is my User ID?

- Derive your User ID from your student number.
- If your student number is 12345678A,
 Your User ID would be \$12345678 (prefix with "\$" and drop the check digit at the end of your student number, eg. "A")

What's my NP Email Address?

- The format of your email address is {User ID}@connect.np.edu.sg
- Example: \$12345678@connect.np.edu.sg

Oops, I forgot my Password

- if you have registered your Personal Email in NPal for password recovery purposes, you may Reset your password **HERE**.
- If not, please email <u>Dora.ITCare@np.edu.sa</u> for assistance



How to Access Your NP Email

It is essential that you know how to access your NP email as **important messages are sent to you via NP email**.

3 ways to access your email:

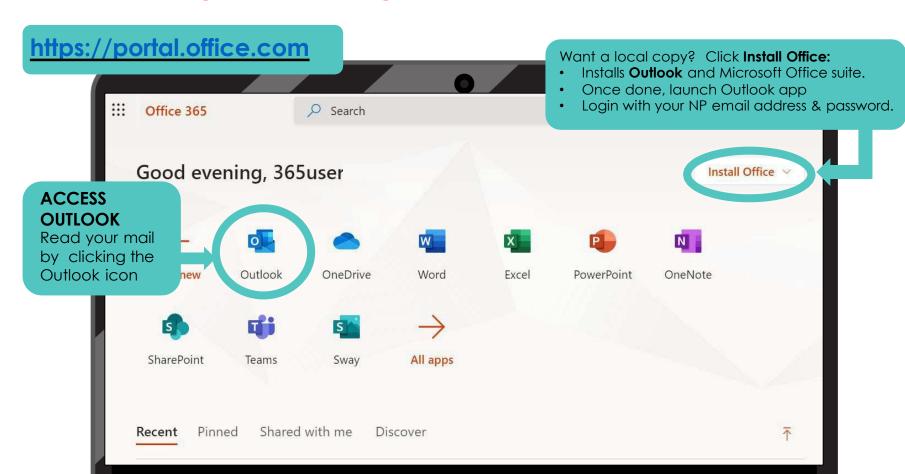
- Direct web link: https://outlook.office365.com
- ii. Microsoft Portal: https://portal.office.comHere you can access your NP email and other Microsoft apps off the Office365 Cloud
- iii. Install the Microsoft <u>Outlook or Office apps</u> locally into your computer. Go to https://portal.office.com and click [INSTALL OFFICE]. Launch Outlook after installing and login.

Get ready your NP Email address and Password for access.



Accessing/Installing Outlook







Logging in to Connect Mail

Whether you are accessing NP Email directly or from the Outlook app, the login method is the same.

Direct Link to email:

https://outlook.office365.com

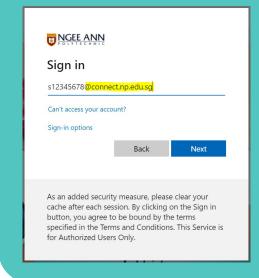
Outlook app:

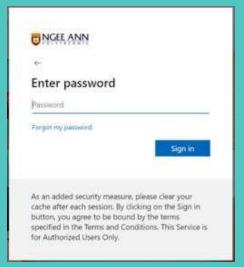
https://portal.office.com to install.

LOGIN PROMPT

When logging in to email or POLITEMall, you will see the standard login dialog.

Sign in with your full NP email address eg. s12345678@connect.np.edu.sg





April 2024 Semester

Lectures

- Asynchronous (Online Asynchronous Lectures)
- No face-to face
- Not time-tabled

Tutorials/Practical sessions (Classroom/Labs)

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

In-Person Learning (IPL)

- Face-to face
- Not time-tabled Lecturers will schedule

- You will be guided (but you have to be <u>disciplined</u> to do selfstudy)
- You will have access to help.
- You can reach your lecturers through Teams chats or emails



How will Flipped Learning be like?

In-Person Learning to support

At NP, your flipped learning experience will be in the form of:









1. Lectures or Pre-Lesson Learning (OAL)

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

Lecture materials & resources online



Interactive activities in online learning materials



Non-graded practice exercises online



Online resources for revisions & to complete assessments





2. Tutorial (in-person)

Applied and collaborative activities which may include:

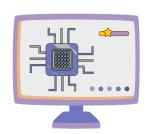
Communication with lecturers

Collaborative learning activities with peers

Nongraded/graded practice exercises online Online resources for revision and to complete assessments











3. Practicals (in-person)

Applied learning and in specialised facilities:

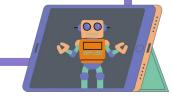
Applications / Experiments



Pre-Practical interactive online resources & activities



Additional simulated practicals online



Practical reports/Lab Test

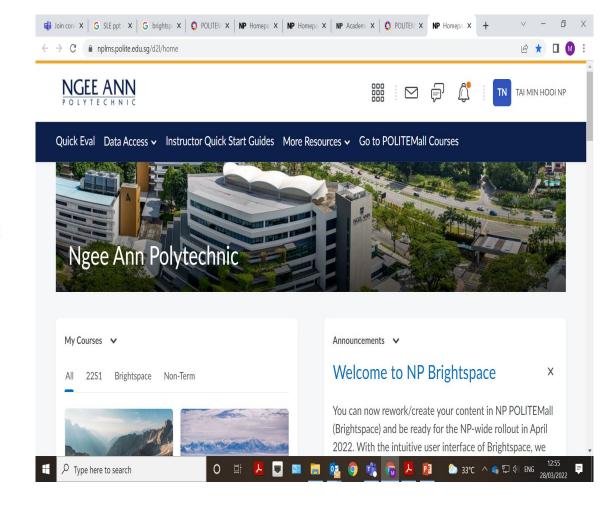
Academic Calendar (April 2024 semester)

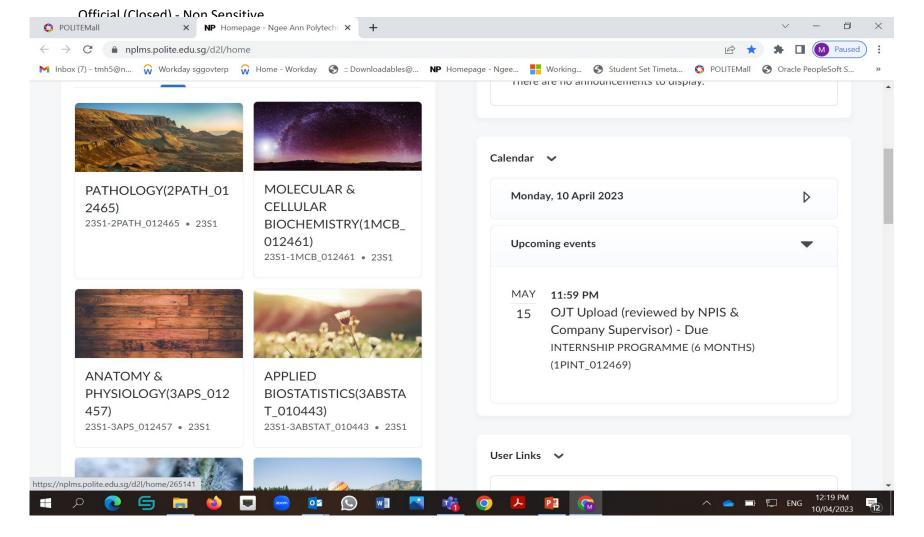
April 2024 Semester 1		October 2024 Semester 2	
Teaching Weeks	15 Apr 2024 to 9 Jun 2024	Teaching Weeks	14 Oct 2024 to 15 Dec 2024
Break	10 Jun 2024 to 23 Jun 2024	Break	16 Dec 2024 to 5 Jan 2025
Teaching Weeks	24 Jun 2024 to 11 Aug 2024	Teaching Weeks	6 Jan 2025 to 16 Feb 2025
Study & Examination Weeks	12 Aug 2024 to 25 Aug 2024	Study & Examination Weeks	17 Feb 2025 to 2 Mar 2025
Vacation	26 Aug 2024 to 13 Oct 2024	Vacation	3 Mar 2025 to 20 Apr 2025

RE-EXAM

eLearning Site –NP Brightspace

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





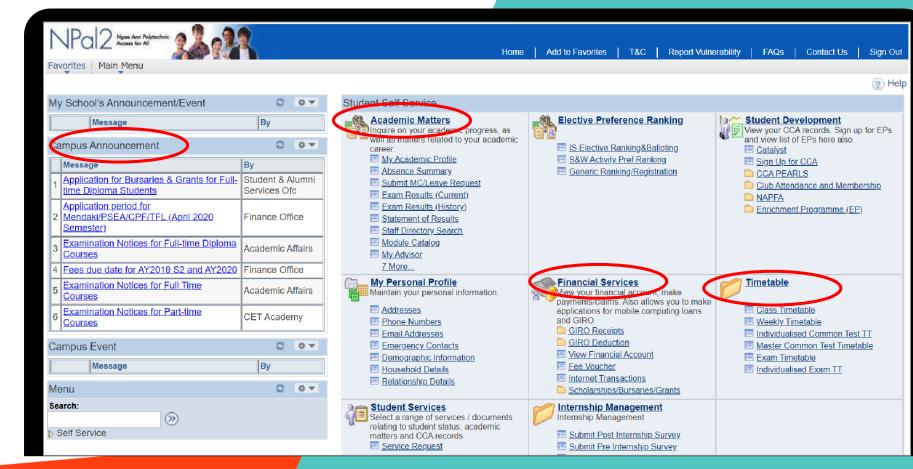
NPal Student System

https://npalstudent.np.edu.sg



	Pal 2 Ngee Ann Polytechnic Access for All
User ID	This Service is for Authorised Users Only NPal2 Help/FAQ Feedback Form Forgot Password Change Password
Password	As an added security measure, please clear browser cache after use. By clicking on the Sign In button, you agree to be bound by the terms specified in the
Sign In	Terms and Conditions.
	Available on the Android App on Google play
	■ Google play

NPal Student System (landing page)



Offic	Note: Dates where	displayed indicate	the first and last ses	sions of the cla	ass in that venue.			
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	3 PHARM 2BRM		1		UANG YINYI		LO1	first 2
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	In-Person Learn	ning (On-Camρι	ıs)					weeks
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Module name	9:00AM	PHARM 9IPC 83-07-0004 HO HUIXIAN, OLIVIA P01	NEVILIAPPAN T01 EVEN weeks					first 2 weeks
Location —	10:00AM	PHARM 9IPC 83-07-0003 NG HUI LI P01						
Location —	11:00AM	PHARM 9IPC 51-07-0006 TEOH CHUN MING T01	PHARM 5PCH1 71-02-0009 SHANMUGAM NEVILIAPPAN P01					
	12:00PM							Exception:
Lecturer _								Mathematics
Lecturer	1:00PM		PHARM 7MATH 51-04-000B TBA L01	4				
Lesson Type	2:00PM	PHARM 2CBGN 80-08-0001 LIM SIOK LIU P01						No OAL – f2f for L and T.
	3:00PM		Т01					
	4:00PM		PHARM 2BRM 50-03-0008 TEOH KIM TAT 101					eannpoly

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%
А			80 - 84%
B+	Very Good	3.5	75 - 79%
В		3.0	70 - 74%
C+	Good	2.5	65 - 69%
С		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"

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 <u>valid reasons</u> 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	If you pass the module and do not meet the minimum attendated requirement, your module grade will be capped at the passing - "D" grade for examinable and continuous assessment module. "PX" or "Pass" grade for modules graded Pass/ Pass with N				
3	Reasons for absence	Only valid reasons are accepted. Submit them within two (2) working days.			
attendance - 1 st warn - 2 nd and 1		- 2 nd and <u>final</u> notification when attendance rate falls to 73%			

MC (Medical Certificate)

(i) E-submission of Medical Certificate (MC) from the clinic/ other document online anytime and anywhere via the NPal Student Self Service.

(i) Students are required to keep their original hardcopy MC/documents for review & submission at a later stage for absence from exam/test/other assessment.

Pharmaceutical Science

Integrative curriculum

- Clinical Pharmacy
- Pharmaceutical Applications

Broad-based training in **healthcare and applied** science

Industry readiness

- Internships clinical pharmacies, pharmaceutical and biopharmaceutical organisations
- Industry-in-Curriculum

Final-year electives

- Complementary Medicine & Traditional Chinese Medicine
- Nutrition & Dietetic Science





One course, two fields of study

- Clinical Pharmacy
 - Knowledge about <u>clinical practices</u> in pharmacies
 - Medication dispensing, medical intervention, patient counselling, pharmacy operation
 - Human body & diseases, drug actions & interactions, pharmocotherapeutics, clinical practices
- Pharmaceutical Applications
 - Knowledge about <u>pharmaceutical/biopharmaceutical manufacturing</u> <u>process/drug formulation/drug discovery & development</u>
 - QA/QC investigations, <u>laboratory testings</u>
 - R & D (Recombinant DNA & protein technology, cell culture, drug discovery etc)
 - Biotechnology, Analytical tools for (bio) pharmaceuticals, microbiology, immunology, medicinal chemistry

NP PharmaVerse

- Immersive tech
- T&L approach
- experiential/applied learning
- immersive/3D virtual products



NP PharmaVerse

Highlights

3D Virtual Community Pharmacy (Interactive Games

incorporated)

- 3D virtual community pharmacy
 - Showcase <u>different areas in a pharmacy and process of dispensing medications through 3D experience</u>
- <u>Learning resource</u> for a Yr 1 PHARM module
- Questions to ponder
 - What activities are carried out in a pharmacy?
 - Have you ever collected medicines from a pharmacy? What does the dispensing process entail?
 - What types of medication packaging have you encountered?
 - What information a medication label must contain?



KEY FEATURES



Fully Online, Async, Self-Directed, Interactive, Immersive Learning

Highlights

Intro to 3D printing & Prototyping

- Incorporate in the curriculum/separate workshop
- Design Thinking
- Learn <u>3D printing and prototyping skills</u>
- Develop innovative solutions that can improve patients' healthcare journeys.



Highlights

Enriching Electives (Year 3)

- Widen your skills and future career choices.
- Electives
 - Complementary Medicine & Traditional Chinese Medicine
 - Evaluate the evidence behind complementary therapies and traditional Chinese medicines.
 - Nutrition & Dietetic Science
 - Learn about how nutrients, supplements and weight management can impact one's health.







Opportunity

Year 3 Internships

- Internships at
 - Clinical pharmacies
 (hospitals, polyclinics, retail pharmacies)
 - Pharmaceutical/
 Biopharmaceutical companies

• 6-month full time



















Opportunity Healthcare Institute (HCI) Pharmacy Technician Sponsorship

- Pharm Technician Sponsorship from HCIs
 - Tan Tock Seng Hospital (TTSH)
 - Woodlands Health (WHC)
 - Ng Teng Fong General Hospital (NTFGH)
 - Singapore General Hospital (SGH)
- Sponsorship
 - Cover tuition fees throughout poly education
 - Monthly allowance
 - Year 3 Internship
 - 2-year bond upon graduation





SHAPE THE FUTURE OF HEALTHCARE WITH US

as a Pharmacy Technician

Curriculum Structure

Year 1



Year 2



Year 3

Establishing Strong Fundamentals



Application of Fundamentals



Real World

Application

FUND IN PHARMACEUTICAL
SCIENCE
ANATOMY & PHYSIOLOGY
BIOSAFETY AND RISK
MANAGEMENT
CELL BIOLOGY
BIOSTATISTICS
CHEMISTRY MODULES

PATHLOGY & PHARMACOLOGY
PHARMACEUTICS
PHARMACEUTICAL ANALYSIS
PHARMACEUTICAL BIOTECHNOLOGY
MEDICINAL CHEM& DRUG DISCOVERY
PHARMACY MANAGEMET & LOGISTICS
APPLIED BIOSTATISTICS

6-MONTH INTERNSHIP

CLINCAL (HOSPITAL/RETAIL)
INDUSTRY (PHARMACEUTICAL)

INDUSTRY-IN-CURRICULUM
CLINICAL SKILLS IN PHARMACY PRACTICE

ELECTIVES
COMPLEMENTARY MEDICINE & TCM

NUTRITION & DIETETIC SCIENCE

IS modules – Health & Wellness, Communication essentials, Innovation Made Possible IS modules – World Issues Singape Perspectives

Course Learning Experience Map

Year 1

Year 2

Year 3

GRADUATION



Passionate

Establishing Strong Fundamentals

Application of Fundamentals Real World Application

Pedagogies of the Profession + Blended Learning (Lectures/Tutorial/Practicals) + Inter-disciplinary Studies



Learner

Bighearted Person



- Discovering Values
- Inculcating R3ICG
- Engaging and Serving the Community
- Building an Enterprising Mindset

Service Learning +
Student Interest Groups, CCAs & Youth Expedition Projects

Discovering Passion and Aspiration

- Building your Personal Portfolio
- Inculcating Innovation and Developing International Perspectives

ECG Framework + Professional Ethics + Overseas Programmes (OIP/Study Trip) + Internship)

- Pharmacy Technician
- ResearchAssistant/Laboratory
 Officer
- Clinical Trials Assistant
- Pharmaceutical QA/QC
- Regulatory Affairs Associate

CAREERS



Further Studies

- Pharmacy
- Life Sciences
- Chemistry
- Allied Health (Physiotherapy, Nutrition & Dietetics, Radiography)
- Medicine/Dentistry

Class grouping and modules

Level 1.1 (1P01)

- 1. Cell Biology
- 2. Inorganic and Physical Chemistry
- 3. Mathematics
- 4. Biosafety & Risk Management
- 5. Health & Wellness
- 6. Career & Professional Preparation 1
- 7. Communication Essentials

Level 1.2 (1P02)

- 1. Fundamentals in Pharmaceutical Science
- 2. Organic & Biological Chemistry
- 3. Anatomy & Physiology
- 4. Career & Professional Preparation 1
- 5. Biostatistics
- 6. Innovation Made Possible

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

<u>Lab-Based Learning</u> Design the flows & perform laboratory procedures

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 Poly

Support

Advisor/Mentor

- Every student is assigned an Advisor who will journey with you for the next 3 years
- 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.



Ms Olivia Ho (1P01)



(1P02)

Support

2. 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.

3. Counsellors

- Everyone goes through ups and downs
- You can make an appointment to speak with a counsellor from the NP Student & Alumni Services (SAS)
- https://www.np.edu.sg/studentservices/education-career-coaching

Important Reminders

 Check your NP Email regularly for messages and updates from the School

 Check Brightspace for module instructions, lecture slides etc this week.

What else should you know?

• Problems?

- Financial issues, study problems,
 relationship matters, health issues, etc
- You can consult advisor or course chair.

Safety in LSCT

Lab sessions

• Lab coats, long pants, covered shoes (for practical) → OTHERWISE, you will not be allowed to enter the labs

Survey for Y1 students



https://for.edu.sg/lsctfop24

THANK YOU