10 July 2018

To: All Science students matriculating in July 2018

Welcome to the Faculty of Science. You have made the right choice! Besides rigorous training in your choice of major discipline, you will also acquire life skills that will make you a versatile, articulate, IT-savvy, and highly employable Science graduate. For a start, we are pleased to provide you with the dates of key events and a series of useful and relevant information for your attention.

DEAN'S WELCOME TEA AY2018/19

All freshmen are strongly encouraged to attend the tea session on **18 July 2018**. The tea session will cover a series of briefings as follow:

- Student Life Introduction by Science Club
- Introduction to NUS Modular System and the Science Curriculum
- Introduction to the Centralised Online Registration System (CORS)
- Welcome Address and Introduction of Deanery, Heads of Departments and Programme Directors
- Safety Talk
- Student Conduct Unit Talk
- CFG Talk
- Library Talk
- Department Curriculum Briefings

Please collect your set of NUS Emergency Preparedness Package (EPP) at the collection points set up outside LT 27 between 8.30am and 10.45am. From 19 July 2018 till 17 August 2018, you may collect your EPP from the Undergraduate Programmes Office at S16 Level 2 during office hours.

REGISTRATION EXERCISE AY2017/18

The Registration Exercise for all Science & Pharmacy freshmen will be held in 2 parts and both parts are compulsory. You should have received an email from the Registrar's Office (RO) detailing the registration procedures by now. You may refer to the following links for important details on the Registration Exercise.

Registrar's Office Registration Information: ***http://www.nus.edu.sg/registrar/event/registration.html***

Registration Guide: ***http://www.nus.edu.sg/registrar/info/info/Registration-Guide-for-Undergraduate-Students.pdf***

Registration (Part One)

All freshmen regardless of citizenship should have completed registration (Part One) and obtained your Student ID, PIN, NUSNET ID & NUSNET Password by now. These are personal and confidential information which should not be shared with anyone else. You will need to use the NUSNET ID and NUSNET password to access the various online systems in NUS. Freshmen under the age of 18 years at the point of completion of registration (Part One) may refer to the Registration Guide for other instructions.

Registration (Part Two)

Students are advised to read the Registration Guide for detailed instructions on this process. Briefly, the Part Two registration process will differ according to the freshmen's age and citizenship as follows:

- *Singapore Citizens and Permanent Residents above 18 years of age and with Singapore address*
  The student card will be delivered by post to your residence. Please activate your student card via the NUS Student Information System *myisis.nus.edu.sg/* immediately so that you can access the Centralized Online Registration System (CORS) when it opens from **26 July 2018** to declare your major(s)/minor(s).
- *International Students, Singaporeans below 18 and Singaporeans without local mailing address.*
  Please complete the registration in person at University Town, Town Plaza, Auditorium 1 on **30 July 2018** to collect your student card. Students are to report according to the schedule stated in the Registration Guide. You may then access CORS to declare your major(s)/minor(s).

Should you encounter difficulty in completing the above-mentioned registration processes, please write to *ugregistration@nus.edu.sg* or call them at 6601 2749 (6 June to 3 August 2018, Mondays to Fridays, except Public Holidays) or 6516 2301 (6 August 2018 onwards, Mondays to Fridays, except Public Holidays).

NUS BULLETIN AY2018/19

The bulletin contains details of modules offered in NUS: *http://www.nus.edu.sg/registrar/nusbulletin*

Please note that the contents of the bulletin are accurate as at the date of publishing. Students are strongly advised to refer to the *Faculty of Science website* and individual *Department websites* for the latest updates: *http://www.science.nus.edu.sg/*

CENTRALISED ONLINE REGISTRATION SYSTEM (CORS)

The schedule for Online Module Registration for AY2018/19 Semester 1 is as follows:

Module registration period	26 July 2018 – 14 August 2018
Lectures begin	13 August 2018
Tutorial registration for GER1000, GEQ1000 and selected Physics Level 1000 Modules	13 August 2018 – 17 August 2018
Tutorial registration for all other modules	17 August 2018 – 24 August 2018
Tutorials begin	27 August 2018
Drop with 'W' & no refund of points	27 August 2018 0000hrs – 30 September 2018 2359hrs
Drop with 'F' & full refund of points	1 October 2018 0000hrs onwards

Please refer to the CORS website at *http://www.cors.nus.edu.sg/* for more information.

Major/Minor Declaration

You will be prompted by the system for Major/s and Minor/s declaration upon the first login. The minimum requirement of your candidature is to read 1 Major Programme and the maximum allowance is 2 Major Programmes with 2 Minor Programmes (Pharmacy students are allowed to read a maximum of 1 Major Programme only). Do select the Programmes according to your ability. You may amend your declaration each semester during the first login to CORS. No amendment is allowed **beyond the fifth semester of study.**

Bidding

Always bid for module(s) in earlier rounds. If you are able to see your desired non-Science modules available for bidding under the 'Regular' modules category, please proceed to select them for bidding. The category under which you bid for the module and the module type code set for CORS will **not** affect how the module will be used for your graduation requirements.

Assistance

You may register for modules online via any computer with internet access. Students who prefer to do the online registration in the Faculty may proceed to S16 Level 5 Computer Lab.

Should you require any assistance, please approach the Science Computer Based Learning Centre (CBLC) Helpdesk during the module registration period at S16 Level 2. The contact information and operating hours of Science CBLC Helpdesk for AY2018/19 Semester 1 are as follow:

26 July 2018, Thursday – 10 August 2018, Friday
Hotline - 6516 8701
Email - ***helpdesk@science.nus.edu.sg***

Monday – Thursday	0900 – 1730 hours
Friday	0900 – 1630 hours
Weekends & University/Public Holidays	Closed

Please bring along your NUSNET ID and NUSNET Password during the module registration period. Students should not reveal their login/email passwords and NUS Smartcard PIN number to anyone. Disciplinary action will be taken against those who do so.

Workload

All Single Degree students can select and bid up to a **maximum of 23 MCs** while Double Degree students and students involve in Special Programmes can select and bid up to a **maximum of 27 MCs**. Do note that the stipulated **minimum workload** that each student should have from AY2015/16 Semester 1 onwards is **18 MCs per semester.**

MODULE AND EXAMINATION TIMETABLE

The class and examination timetables for AY2018/19 Semester 1 can be found at the following URL from 5 July 2018 onwards: ***https://myaces.nus.edu.sg/cors/jsp/report/ModuleInfoListing.jsp***

The onus is on the student to map out the study plan and avoid registering for modules with clashes in class or examination timetable. Faculty of Science is not supportive of timetable clash waivers. Appeals are only considered if students require the module to fulfil their graduation requirement in their graduating semester, without which might lead to a delay in graduation. Students may use the NUS Timetable Builder to generate a personalized timetable: ***https://webrb.nus.edu.sg/ctt/builder.aspx***

NUS DATA PROTECTION POLICY AND PERSONAL DATA PROTECTION ACT (PDPA) GUIDELINES

Recently, Singapore has seen multiple cases of data breaches and attacks on our IT infrastructure. Understanding that the University is not immune to these incidents and threats, we have taken direction from the Singapore Personal Data Protection Commission (PDPC) to roll out an e-training module DP1001 *NUS Data Protection Policy and Personal Data Protection Act (PDPA) Guidelines* to all undergraduates.

All students are required to complete this 30-minutes **mandatory** e-training module via Integrated Virtual Learning Environment (IVLE) by **13 Aug 2018**. Students who fail to complete the e-Training by the deadline will be assigned a "Hold" which will block the following services:

• View/print Student Status Letter
• View/print Unofficial Transcript

If you have questions on the e-Training, please write to ***opcsec@nus.edu.sg***

QUALIFYING ENGLISH TEST (QET)

Students will be notified by the Centre for English Language Communications (CELC) of your QET results.

- Students who obtain Band 1 will have to take ES1000 followed by ES1103.
- Students who obtain Band 2 will have to take ES1103.
- Students who obtain Band 3 are exempted from these English modules.

Students are strongly advised to complete the required module(s) within the first year of study. Students who are required to read both ES1000 and ES1103 may read ES1000 in the first semester of study and ES1103 in the second semester of study. Please refer to the CELC website for more information: ***http://www.nus.edu.sg/celc/programmes/qet.php.***

COMPULSORY COMMUNICATION MODULE

The Centre for English Learning and Communication (CELC) and Faculty of Science co-developed SP1541 *Exploring Science Communication through Popular Science*, a compulsory module for all Science students (except Pharmacy and Environmental Studies students, USP and SPS students and students from any Residential Colleges) matriculated in AY2015/16 and beyond. Students are strongly advised to complete the module within the first year of study. Students who are required to read ES1000 and/or ES1103 should complete the module within the first two years of study.

Please refer to the following website for more information: ***http://www.science.nus.edu.sg/undergraduate-studies/ugreq/curriculum-structure/186-undergraduate/ugreq/curriculum-structure/708-es1541***.

GENERAL EDUCATION (GE) CURRICULUM

As part of Graduation Requirements, all students admitted from AY2015/16 (except students from Law, Medicine, Dentistry and Nursing) are required to read one General Education Module from each of the five pillars to satisfy the University Level Requirements (ULR). The five pillars are:

   i.   Human Cultures
   ii.   Asking Questions[1]
   iii.   Quantitative Reasoning[2]
   iv.   Singapore Studies
   v.   Thinking and Expression

[1]   GEQ1000 *Asking Questions* is the only module offered under the pillar. Ridge View Residential College (RVRC) students may read GEQ1917 *Understanding and Critiquing Sustainability* to fulfil the Asking Questions pillar.

[2]   GER1000 *Quantitative Reasoning* is the only module offered under the pillar. University Scholars Programme (USP) and University Town College Programme (UTCP) students admitted from AY2016/17 are required to read GER1000. The rest of the GE requirements are fulfilled by USP/UTCP modules.

Students are strongly encouraged to complete the GE modules within the **first 2 years** of your candidature. Students who have read/selected 1 module in a particular pillar are **not** allowed to bid for a 2nd module from the same pillar until bidding Round 2B, subject to module availability.

GEQ1000 & GER1000 module pre-allocation

GEQ1000 and GER1000 will be pre-allocated based on the student's major, except USP students who will be pre-allocated GER1000 in Year 1 Semester 1 regardless of their Major.

Major	GER1000	GEQ1000
Bachelor of Environmental Science Data Science & Analytics Pharmacy	Year 1 Sem 1	Year 1 Sem 2

Computational Biology		Year 1 Sem 1	Year 2 Sem 1
Food Science & Technology		Year 1 Sem 2	
All other Majors	Non-Hall Students	Year 1 Sem 1 or 2	Year 1 Sem 2 or Year 2 Sem 1 or 2
	Hall Students*	Year 1 Sem 1	Year 1 Sem 2

* Hall residents will attend tutorials at their Halls, if they are reading GER1000 in Year 1 Semester 1 and GEQ1000 in Semester 2. Halls include Kent Ridge, Sheares, Eusoff, Raffles, King Edward VII, Temasek and Prince George's Park House.

GEQ1000 & GER1000 tutorial balloting

Even though GER1000 and GEQ1000 modules are pre-allocated, students have to ballot for tutorial classes during Tutorial Iteration 1 from **13 August 2018 – 17 August 2018.**

13/08/2018 (Mon)	14/08/2018 (Tue)	15/08/2018 (Wed)	16/08/2018 (Thurs)	17/08/2018 (Fri)
Tutorial Iteration 1 Balloting Round 1A	Tutorial Iteration 1 Balloting Round 1B	Tutorial Iteration 1 Add/Drop/Swap	Tutorial Iteration 1 Manual Registration	Tutorial Iteration 1 Manual Registration

➤ Students may rank up to 20 tutorial timeslots (1 being highest priority).
➤ Quota of each tutorial timeslot is available on ***http://www.nus.edu.sg/cors/useful-info.html***
➤ Add/Drop/Swap is on first-come-first-served basis
➤ The details for manual registration will be communicated to students via NUS email.
➤ Students may refer to the following links and contact details should you have any query.

	GER1000	GEQ1000
Enquiries	***QRadmin@nus.edu.sg***	***AskQ@nus.edu.sg***
Website	***https://wiki.nus.edu.sg/pages/viewpage.action?pageId=194740263***	

COMPUTATIONAL THINKING (CT)

To remain relevant in the workplace of tomorrow, undergraduates should acquire basic computational skills, i.e. computational thinking (CT). All Faculty of Science students admitted in AY2017/18 and onwards (except Pharmacy students matriculated in AY2017/18 and SPS students) are required to read the following option(s) to fulfil the CT requirement.

Majors / Programmes	Computational Thinking (CT) Requirement
Computational Biology Data Science & Analytics Mathematics Applied Mathematics Quantitative Finance Statistics	CS1010S (or its variants) *Programming Methodology*, which is within the Majors' essential requirements.
Life Sciences Physics	Option 1: COS2000 *Computational Thinking for Scientists* **or** Option 2: CS1010S (or its variants) *Programming Methodology*
Chemistry Food Science & Technology	Option 1: COS2000 *Computational Thinking for Scientists* **or** Option 2: CM3267 *Computational Thinking and Programming in Chemistry* **or** Option 3: CS1010S (or its variants) *Programming Methodology*
Bachelor of Environmental Studies (BES)	GET1031A *Computational Thinking* BES students doing UTCP at Residential College 4 (RC4) are exempted from GET1031A.

- COS2000 and CS1010S are open for bidding by all Science Students regardless of your major's CT requirement. Nonetheless, the availability of these modules is subjected to successful bidding.
- CM3267 will be offered with effect from AY2018/19 Semester 2.
- Pharmacy students matriculated in AY2017/18 are exempted from the CT requirement. The department will communicate the CT requirement for Pharmacy students matriculated in AY2018/19 as part of academic advising during the Dean's Welcome Tea.

More information on CT requirements is available on
http://science.nus.edu.sg/undergraduate-studies/ugreq/computational-thinking-requirement

OVERLAPPING AND PRECLUDED MODULES

Some modules offered may overlap substantially in content with each other. Students are discouraged from reading overlapping modules unless both are required for attaining a double major, for example. In such situation, students may be allowed to read the overlapping module, but only the modular credits and grade of one module will be counted towards the graduation requirements.

Similarly, if you have obtained approval to read a precluded module, only the modular credits and grade of one module will be counted towards your graduation requirements.

Students are expected to exercise personal responsibility to check if they are reading overlapping and/or precluded modules. When in doubt, students should consult the module coordinator or academic advisor. Please refer to the following links for the list of precluded and overlapping modules**.**

- ***http://www.science.nus.edu.sg/undergraduate-studies/ugreq/curriculum-structure/186-undergraduate/ugreq/curriculum-structure/218-overlapping-modules***
- ***http://www.nus.edu.sg/registrar/nusbulletin/***

S/U OPTION ENTITLEMENT

With the launch of Enhanced Grade-free Scheme with effect from AY2016/17 Semester 1, students may exercise the S/U option for up to 32 MCs in the first two regular semesters. If this is not fully utilised, the S/U option may be exercised in subsequent semesters, for up to 12 MCs.

Variations on the limit of S/U options that can be exercised apply for specific groups of students:

i.   Students without prior university experience but are granted 20 or more Advanced Placement Credits (APCs) at the point of admission to NUS may exercise the S/U option for up to 20 MCs in the 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.
ii.   Students with some prior university experience (which are being recognised towards the NUS degree) may exercise the S/U option for up to 12 MCs anytime during their candidature, including the first two regular semesters.
iii.   Students with a prior university degree are not eligible for the grade-free scheme.

Student Type		S/U Options Available	
		First two regular semesters	Beyond first two regular semesters (if unutilised)
Newly admitted students without prior University experience. This also includes students with: • Clean slate transfer from another University or Faculty. • Re-admitted into NUS on a clean slate.	< 20 APCs	32 MCs	12 MCs
	≥ 20 APCs	20 MCs	12 MCs
Students with some prior University experience. This includes: • Transfer from another University with credits. • From partner Universities whose first year of study is		12 MCs	12 MCs

not at NUS. • Enrolled in DDP where Law is one of the partner faculties and hence spent their first year in Law.		
Students with a prior University degree	0 MCs	0 MCs

<u>The abovementioned entitlement is applicable for the following modules:</u>

- All Level 1000 modules.
- Level 2000 modules without NUS modules as pre-requisites.
- Centre for Language Studies' (CLS) language modules at all levels.
- Yale-NUS College's (YNC) language modules at all levels.
- Centre for English Language Communication's (CELC) Level 2000 Communication and Ideals & Exposition modules. (ES2002, IS2101, CS2101, ES2660, ES2007D, ES2331, UTW2001%)

<u>The abovementioned entitlement is not applicable for the following modules:</u>

- Level 2000 modules with NUS modules as pre-requisites.
- Modules of Level 3000 and above.
- Modules dropped with W or F-grade (during the module dropping period).
- Modules assigned IC grade.
- Modules in which student had committed academic offense.
- Modules in which the Board of Discipline had prescribed a revised grade.
- University Scholars Program's (USP) Writing and Critical Thinking modules (UWC2101%) and Quantitative Reasoning modules (UQF2101%).
- Yong Siew Toh Conservatory of Music (YSTCM) Major Study modules.
- Zero-MC modules.

<u>Key Points to Note</u>

- Both the 'S' and 'U' grade count towards the total S/U Option entitlement.
- For modules read on an S/U basis, the modular credit is obtained only if a student attains a Satisfactory 'S' grade for the module.
- A Satisfactory 'S' grade is an equivalent of a 'C' grade and above.
- All modules read on S/U basis are excluded from the computation of the CAP.
- S/U option, once exercised, is irrevocable. Students may not later request for a conversion to a letter grade.

CONTINUATION, PROBATION & DISMISSAL

To remain in good academic standing, and 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's Office and denied re-admission. The student may appeal against the dismissal if there are extenuating circumstances. However, each student is only allowed to appeal **once** during his/her candidature.

With the launch of Enhanced Grade-free Scheme:
- For students eligible to exercise ≥ 20 MCs of S/U options, the above continuation rules are applied from the third semester onwards.
- For students eligible to exercise ≤ 12 MCs of S/U options, the above continuation rules are applied from the first semester onwards.

Students who face difficulties in coping with their studies are encouraged to approach their academic mentors for guidance and support. The respective mentors will be able to guide and advice students of the

various avenues where help is available. More information on the Science Academic Mentorship scheme is provided at ***http://www.science.nus.edu.sg/students/ams***.

FEE REBATE POLICY

With effect from AY2014/15, a rebate in tuition fees paid in excess of the total fees for the stipulated candidature period may be granted to eligible students who graduate on time within the stipulated candidature period.

A student is eligible for tuition fee rebate if s/he meets all of the following conditions:

i. Admitted into an undergraduate degree under the modular system in NUS from AY2014/2015;
ii. Completed NUS modules during the following period(s):
   - prior to the undergraduate candidature (e.g. NUS iBLOC, NUS H3 subjects, NUS modules taken as NUS High School students, and NUS modules taken under the Polytechnic Advanced Placement Programmes); and/or
   - during Special Terms within the undergraduate candidature;
iii. Paid tuition fees in excess of the fees for completing the undergraduate degree programme on time in the candidature period applicable for fee rebate (as defined in the table below).

S/N	Degree Type	Candidature Period for Fee Rebate[#]
1	Single Degree/ Joint Degree Programme (120 MC)	6 consecutive semesters
2	Single Degree/ Joint Degree Programme (160 MC)	8 consecutive semesters
3	Double Degree Programme (DDP)	9 consecutive semesters

[#] *Include all approved Leave of Absence (LOA) periods, except those given for medical reasons.*

Please refer to the link for more details: ***https://share.nus.edu.sg/registrar/student/info/FAQ-on-Fee-Rebate-Policy.pdf***

PROGRAMMES OF INTEREST

1)   Second Majors offered by Faculty of Science

Science students who wish to enhance and broaden their undergraduate studies may opt for a second major. Please refer to the following website for more information:
http://www.science.nus.edu.sg/undergraduate-studies/ugprog/second-majors.

2)   Freshman Seminar

Freshman Seminars provide an unparalleled opportunity for freshmen to explore a scholarly topic of interest in a small group setting of 15 students. Students will get to work closely with faculty members and/or prominent visiting professors on topics of current interest in contemporary research and acquire independent learning as well as oral and written communication skills. The module earns 4 MCs and may be used to satisfy faculty requirements under the subject group, Multidisciplinary & Interdisciplinary Sciences. Interested students may access the following link for more information on this module:
https://myportal.nus.edu.sg/studentportal/sci/ug/Academics_FreshmanSeminars.html

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IMPORTANT REMINDER

Important information will be transmitted to students through the Faculty of Science Website
http://www.science.nus.edu.sg/ or via electronic mail.

Please note that it is your responsibility to check these channels regularly for latest updates.
You are also reminded to clear your NUS Email Account regularly so that important emails can be delivered to you.

We wish you a pleasant stay in the Faculty of Science and we look forward to seeing you at the Dean's Welcome Tea on **18 July 2018.**

Yours sincerely,

A/Prof Chua Tin Chiu
Associate Dean
Science Dean's Office

cc Dean, Vice Deans, Associate Deans & Assistant Deans, Faculty of Science
    Registrar
    Dean, Office of Student Affairs
    Director, Centre for English Language Communications
    Director of Programme, Quantitative Finance
    Director of Programme, Special Programme in Science
    Director of Programme, Food Science & Technology
    Director of Programme, Computational Biology
    Director of Programme, Bachelor of Environmental Studies
    Heads of Departments of Biological Sciences, Chemistry, Mathematics, Statistics & Applied Probability, Pharmacy, and Physics, Faculty of Science
    Heads of Departments of Anatomy, Biochemistry, Microbiology and Immunology, Pathology, Pharmacology, and Physiology, Yong Loo Lin School of Medicine
    Director, IT Unit
    Masters of Halls of Residence
    Presidents, Science Club & Science CBLC