MAJOR DECLARATION

(FOR PRE-MAJOR FACULTY ADVISOR)

SPRING 2017-18

Enquiries: Hermia X5777 or Zara X5811

ONLINE MAJOR DECLARATION FORM

https://advise2.science.ust.hk/MajorDeclaration2018

Please contact Hermia at 5777 or Zara at 5811 if you encounter any problems.

MAJOR DECLARATION TIMELINE

Timeline	Milestones
1 March – 30 April (5pm)	Application for Major Declaration
Early May	Application for transfer to IRE track Only applicable to students of **BCB, BIOT, MATH, PHYS, CHEM and ENVS**, who have taken **SCIE 1500** in Spring 2018 AND met CGA requirement set by the programs. *(Students without SCIE1500 should consult the School)*
10-15 May	MAEC/BIBU/IPO interview IRE Interview
6-10 June	Re-prioritization (students can add majors that out of their already made choices)
14-15 June	MAEC/BIBU/IPO interview (after re-prioritization)
By 27 June	Release of the Major Declaration result
Early July	Release of the result of transfer to IRE track
Dec 2018	2nd Round of Major Declaration

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BRIEF INTRODUCTION OF 14 MAJORS

	Major	Student frequent concern
	Majors offered by SSCI	
1-3	**Life Science (BCB/BIOT/BISC)**	BCB and BIOT will have relatively more chemistry courses than BISC. BISC has least major courses to take. If students want to get a master degree in Nutrition/Dietetics, they should get a first degree in BCB.
4	**Physics**	Students are preferred to be good at Math too.
5	**Mathematics**	Most popular track: Statistics & Finance (limited quota)
6	**Chemistry**	Relatively more lab work than other majors; contains relatively more Math courses than Life Science
7	**ENVS VS EVMT** Environmental Science	ENVS is a stand-alone major that draws on fundamental scientific knowledge in mathematics, chemistry, physics, and biology coupled with specialization in **Marine biology** to provide advanced scientific and quantitative understanding of contemporary environmental challenges. While EVMT is a major that provides a broadly integrated understanding to the social, political, and historical facets of our environmental challenges with focus on policy, law, technology and sociality aspect of these challenges.
	Joint-School Majors	
8	**BIBU** Biotechnology and Business	4-year program cover most BIOT curriculum and some business basic courses
9	**MAEC** Mathematics and Economics	Students choosing this major should be good at Math and have a strong interest in working in Business setting/Banking industry or research in Mathematics/Economics in the future.
10	**Data Science and Technology (NEW)** Jointly offered by SENG & SSCI	Dealing with unstructured and structured data, Data Science is a field that encompasses anything related to data cleansing, preparation, and analysis. Data Scientists combine statistics, mathematics, programming, problem-solving, capturing data in ingenious ways, the ability to look at things differently to find patterns, along with the activities of cleansing, preparing, and aligning the data.

	Majors offered by IPO	
10	**DDP** Dual Degree Program in Technology and Management	5-year (self-finance last year) **The following BEng/BSc degree** + **BBA degree** • Chemical Engineering • Chemical & Biomolecular Engineering • Civil Engineering • Computer Science • Electronic Engineering • Computer Engineering • Industrial Engineering & Engineering Management • Logistics Management & Engineering • Mechanical Engineering • **Biotechnology (for science students)**
11	**EVMT** Environmental Management and Technology Program	• **combines science, technology and management**. • Focus more on **sustainability solutions, green policy, carbon audit, decision-making, business model etc.** • Suitable for all rounded students who would like to work in a business setting. • Possible career path: Environmental consultant, sustainability officer (private/government) **In contrast, ENVS** • Focuses more on biology, ecology, marine and oceanology. • Suitable for those who likes nature and life and marine life research. • ENVS students can also take electives in sustainability and management. • Both ENVS and EVMT share similar career path.
12	**RMBI** Risk Management and Business Intelligence	Risk management and business intelligence require a strong analytical mind as well as numerical and computing skills. The RMBI program nurtures students with all three elements. The RMBI program interdisciplinary approach builds and synthesizes statistical, mathematical, financial, and information system know-how to develop professional skills and solve risk management problems.
13	**IIM** Individualized Interdisciplinary Major ***(CANNOT declare through major declaration exercise)***	The purpose of this major is to allow students to design a major which is interdisciplinary, yet forms a conceptual whole. Current majors are BSc, IIM (Bionics) BSc, IIM (Computational Cognitive Science) BSc, IIM (Environmental Geoscience) BSc, IIM (Bioenergy Management)

CAREER PROFILE OF SCIENCE GRADUATES (REFERENCE ONLY)

Level	Company	Position	Major
Top	Radica Systems Limited	Co-founder & CEO	Physics
Top	GreenSpark Green Life Limited	Founder	Physics
Senior	Saudi Arabian Oil Company	Analyst	Physics
Senior	Hong Kong Sanatorium & Hospital	Medical Physicist	Physics
Senior	Hong Kong Airport Services Ltd	Aircraft Loading Supervisor	Physics
Senior	PMP - Hasbro Far East Ltd (Toy)	Project Manager	Physics
Senior	Consumer Testing Laboratories (Far East) Ltd	Senior Manager, Customer Relations	Physics
Middle	Koalas International Training Ltd	Sales & Marketing Manager	Physics
Middle	Exponent	Engineer	Physics
Middle	Scientific Officer	Hong Kong Oberservatory	Physics
Entry	EO	Hong Kong Oberservatory	Physics
Entry	Hong Kong International Airport	Aerodrome Control Trainees (ADCTs)	Physics
Entry	ASM Assembly Automation	Metrology Engineer	Physics
Entry	M-solv Ltd	Laser process engineer	Physics
Top	JOSEE	Perfume Designer & CEO	Chemistry
Senior	Bureau Veritas Hong Kong Limited	Technical Manager	Chemistry
Middle	SGS Group	Technician	Chemistry
Middle	CMA	Lab Technician	Chemistry
Middle	SUEZ	Chemist (waste Management (Landfilling))	Chemistry
Entry	The Hongkong Electric Co., Ltd.	Chemist III	Chemistry
Entry	Averex Chemicals Sdn Bhd	Product Specialist	Chemistry
Entry	Town Gas	Marketing Officer	Chemistry
Entry	FWD Insurance	Management Trainee	Chemistry
Entry	GSK	Medical Service Associate	Chemistry
Entry	SGS Group	Chemist	Chemistry
Entry	FDM Group	Group Production Solution Analyst	Chemistry
Entry	Dr. reborn	Sales and Marketing Trainee	Chemistry

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Senior	The Hong Kong Government Laboratory	Forensic Analyst	Life Science
Senior	BGI Health Service Co., Ltd	Associate Director	Life Science
Senior	Standard Chartered Bank	Associate Director, Warrants Sales	Life Science
Senior	TBWA	Associate Creative Director	Life Science
Senior	Bottega Veneta Hong Kong Limited	Regional Wholesale Manager	Life Science
Senior	Ocean Park	Aquarium Operation Manager	Life Science
Middle	Allied Environmental Consultants Limited	Consultant	Life Science
Middle	LHG group (Restaurant)	Assistant Quality & Safety Manager	Life Science
Middle	HKSAR - Hospital Authority	Registered Occupational Therapist	Life Science
Middle	HKSAR- Education Bureau	Assistant Education Officer	Life Science
Entry	HKSAR - Department of Health	Health Inspector	Life Science
Entry	Pfizer	Graduate Intern	Life Science
Entry	IDS Medical Systems (Hong Kong) Co. Ltd.	Management Trainee	Life Science
Entry	COOK Medical Urology	Territory Sales Manager	Life Science
Entry	Now TV & TVB	Anchor of News Channel	Life Science
Entry	WWF	Assistant Education Officer, Marine	Life Science
Senior	Crédit Agricole Corporate and Investment Bank	Interest Rate Derivatives Trader, Associate Director	Mathematics
Senior	American International Assurance Company Ltd	Unit Manager	Mathematics
Senior	Cup Magazine Publishing Limited	Business Development Director	Mathematics
Middle	Census and Statistics Department, HKSAR	Statistician, Research Manager	Mathematics
Middle	OpenRice	Data Analyst	Mathematics
Middle	HSBC	Assistant Manager, Flow Credit Valuation	Mathematics
Middle	Property Asset Management	Associate	Mathematics
Entry	PricewaterhouseCoopers	Associate	Mathematics
Entry	McLagan	Analyst	Mathematics
Entry	JETCO	IS Audit Trainee	Mathematics
Entry	Cigna	Customer Value Management Data Analyst	Mathematics

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MAJORS WITH SPECIFIC ENTRANCE REQUIREMENT

Major	Requirement	Ranking Criteria	Quota for SSCI
Majors jointly offered by SBM and SSCI			
BIBU	**CGA 3.0 or above**; **C+** or above in LANG1002 and LANG1003	Holistic assessment based on CGA, CV profile, personal statement (Interview may be required)	1X
MAEC	**CGA 3.0 or above**; **B-** or above in MATH1012/1013/1020/1023; **C+** or above in LANG1002 and 1003	Holistic assessment based on CGA, selected course performance, CV profile and interview performance	1X
Majors offered by IPO			
DDP	**CGA 3.25** or above; Meeting entrance requirements of SENG/SSCI and SBM; HKDSE English **Level 5** or above (or equivalent), or **A-** or above in LANG1002 and 1003	Holistic assessment based on pre-admission exam result, CGA, selected course performance, CV profile and interview performance	~0-2
EVMT	HKDSE English **Level 4** or above (or equivalent)	Holistic assessment based on pre-admission exam result, CGA, selected course performance, CV profile and interview performance	~13
RMBI	**CGA 3.0 or above preferred**; **B- or above** in MATH 1012/1013/1020/1023 preferred; **C+** or above in LANG 1002 & 1003	Holistic assessment based on pre-admission exam result, CGA, selected course performance, CV profile and interview performance	~4

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SELCTION AND CALCULATION

- **Student preference first, program quota (order of preference won't affect the calculation)**
- **Best 4 science foundation courses* (*SCIEXXXX and Lab courses are excluded)**
- **Calculation formula: Sum of Course Grade points of 4 BEST science foundation courses, e.g. A+, B, B, A = 4.3 +3+3+4 = 14.3**

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DSE STUDENTS WITH FAILED COURSES

Student X

Failed in Fall:

- **MATH1013, CHEM1020**

Taken:

- **LIFS1902 (1)**

Retake in Spring:

- **MATH1013 (2), CHEM1020 (3)**

She cannot take other science foundation courses because

- Not offered/pre-requisite not met

She can only use 3 courses for score calculation

STUDENTS WITH TOO MANY CREDITS OF SCIENCE FOUNDATION COURSES TRANSFERRED

Student Y

Got Credit Transfer in

- **CHEM1010;PHYS1111;MATH1013; LIFS1901;**

Taken at HKUST in Fall:

- **MATH1014(1); LIFS1030 (2);**

Taken at HKUST in Spring:

- **PHYS1114 (3), MATH2023 "A-" (4), MATH2121 "C"**

She doesn't need to take other science foundation courses because she has taken all 7 foundation courses in the 4 areas

Some other science-related courses will be used for score calculation

2015-16 MAJOR DECLARATION STATISTICS (REFERENCE ONLY)

2015-16

Program	No. of students	CGA Mean	Best 4 Score Mean
LIFS	173	2.538	10.542
CHEM	85	2.586	11.407
PHYS	48	3.148	13.585
MATH	85	2.533	11.129
MAEC	30	3.361	15.02
ENVS	23	2.781	11.996
RMBI (for science students)	8	3.385	-
EVMT (for science students)	25	3.045	-
DDP	1	3.064	-

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2016-17 MAJOR DECLARATION STATISTICS (REFERENCE ONLY)

2016-17

Program	No. of students	CGA Mean	Best 4 Score Mean
LIFS	177	2.492	10.349
CHEM	67	2.623	11.330
PHYS	61	2.852	12.557
MATH	141	2.483	10.914
MAEC (for science students)	15	3.412	-
BIBU (for science students)	15	3.251	-
ENVS	20	2.838	12.290
RMBI (for science students)	8	3.266	-
EVMT (for science students)	11	3.259	-
DDP (for science students)	1	--	-
IIM (for science students)	1	--	-

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ROLES OF THE PRE-MAJOR FACULTY ADVISOR

- **Show that you care**
- **Discuss with your advisees their major choices and make sure that their decision is well thought through**
- **Ensure that your advisees are progressing towards their intended majors**
- **Endorse your advisees' major declaration**
- **Meeting should last for 20 minutes**

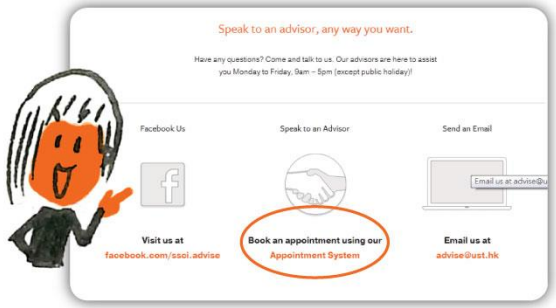
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MAJOR DECLARATION 2017-18

APPLICATION PROCEDURE:

STEP 1

From 2 to 22 Feb 2018 , go to advise.science.ust.hk
to make appointment with your advisor.
You have to meet your advisor from **1 Mar to 30 Apr 2018**.



Enquiries: Tina Ko X5873



STEP 2

Read the curriculum of your preferred major(s) at
advise.science.ust.hk/aa/choose-your-major-minor



Enquiries: Tina Ko X5873

STEP 3

Bring your tablet/laptop and meet your advisor on your scheduled day.



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PASSCODE: Your 4-digit phone extension number

STEP 4

Login to the online major declaration form.
Select your major choices and ask your advisor to enter the code before submission.



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STEP 5

Submit your online form upon endorsement. Login again if you want to change your major choices.
All changes should be made **NO later than 5pm, 30 Apr 2018 (Mon).**



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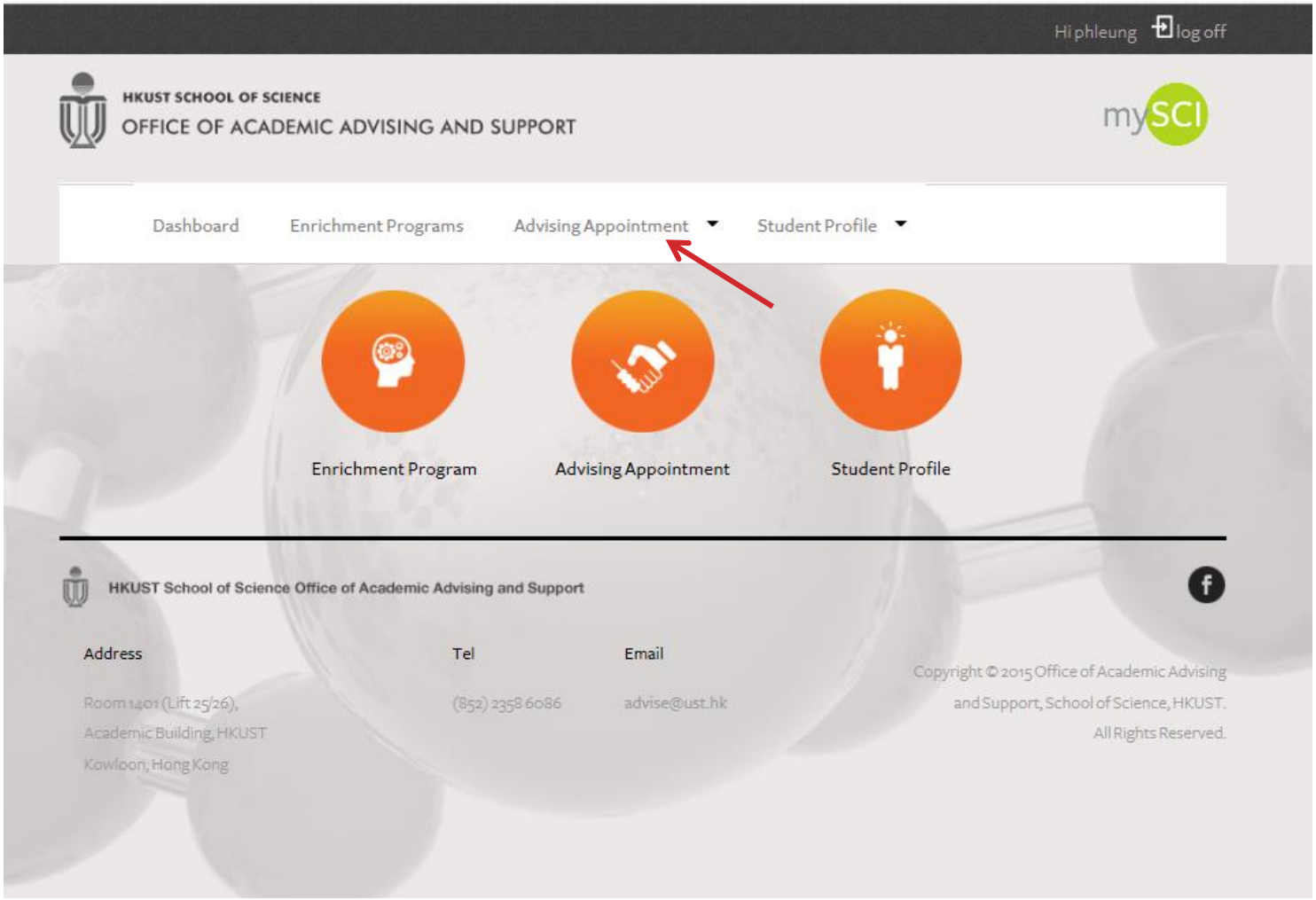
DURING THE ADVISING SESSION

1. **Check the student's profile before advising (https://sdb.science.ust.hk/mySCI/)**
2. **Find out how he/she is adapting to university life**
3. **Check if the pre-major requisites were fulfilled**
4. **Ask if the student has any concern or question**
5. **Enter your passcode to endorse his/her choices**
6. **Mark your record/comment in the student profile**

Please note that student can change their choices after the meeting. You don't need to endorse the changes.

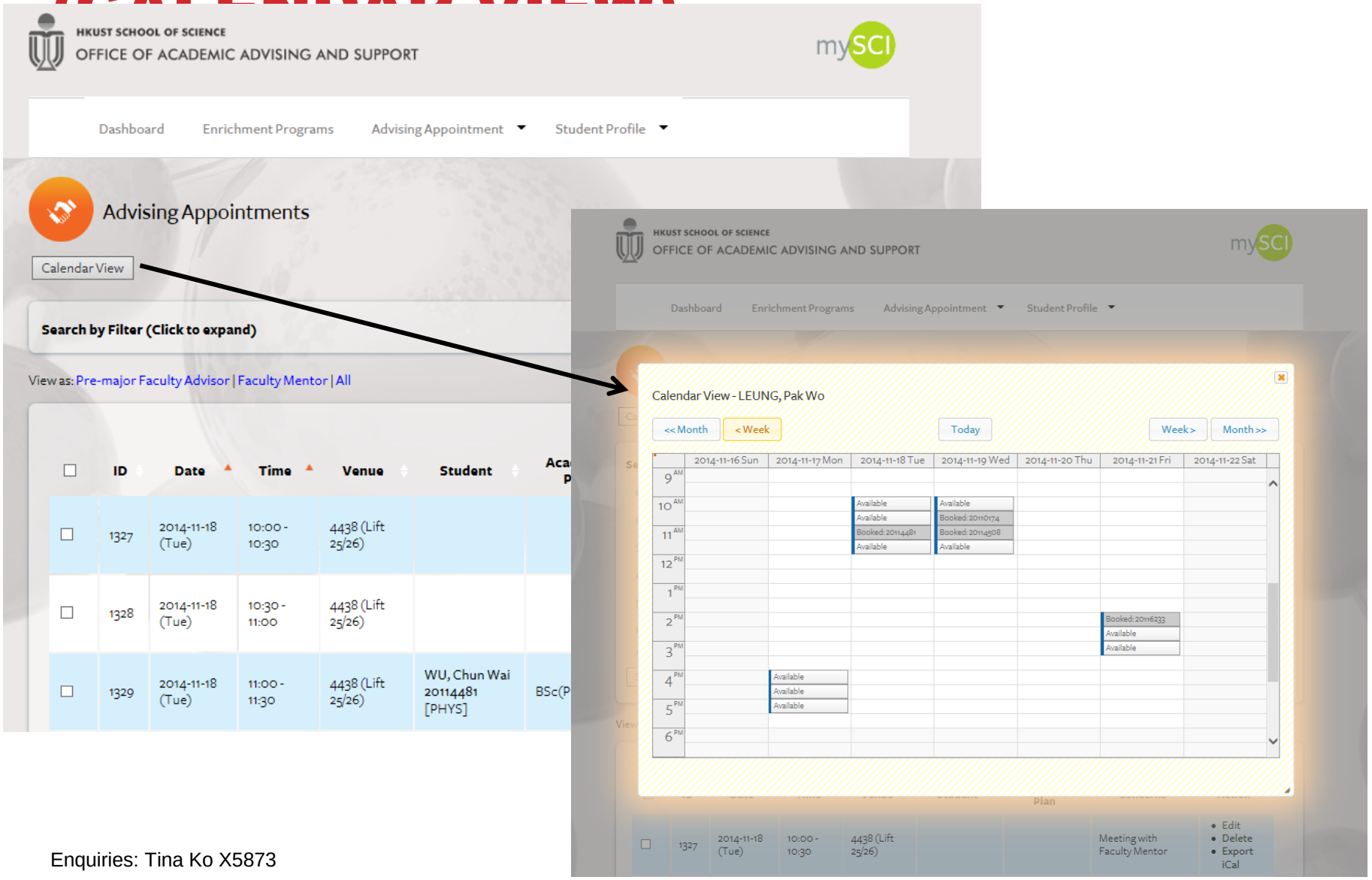
CHECK YOUR APPOINTMENT

https://sdb.science.ust.hk/mySCI/

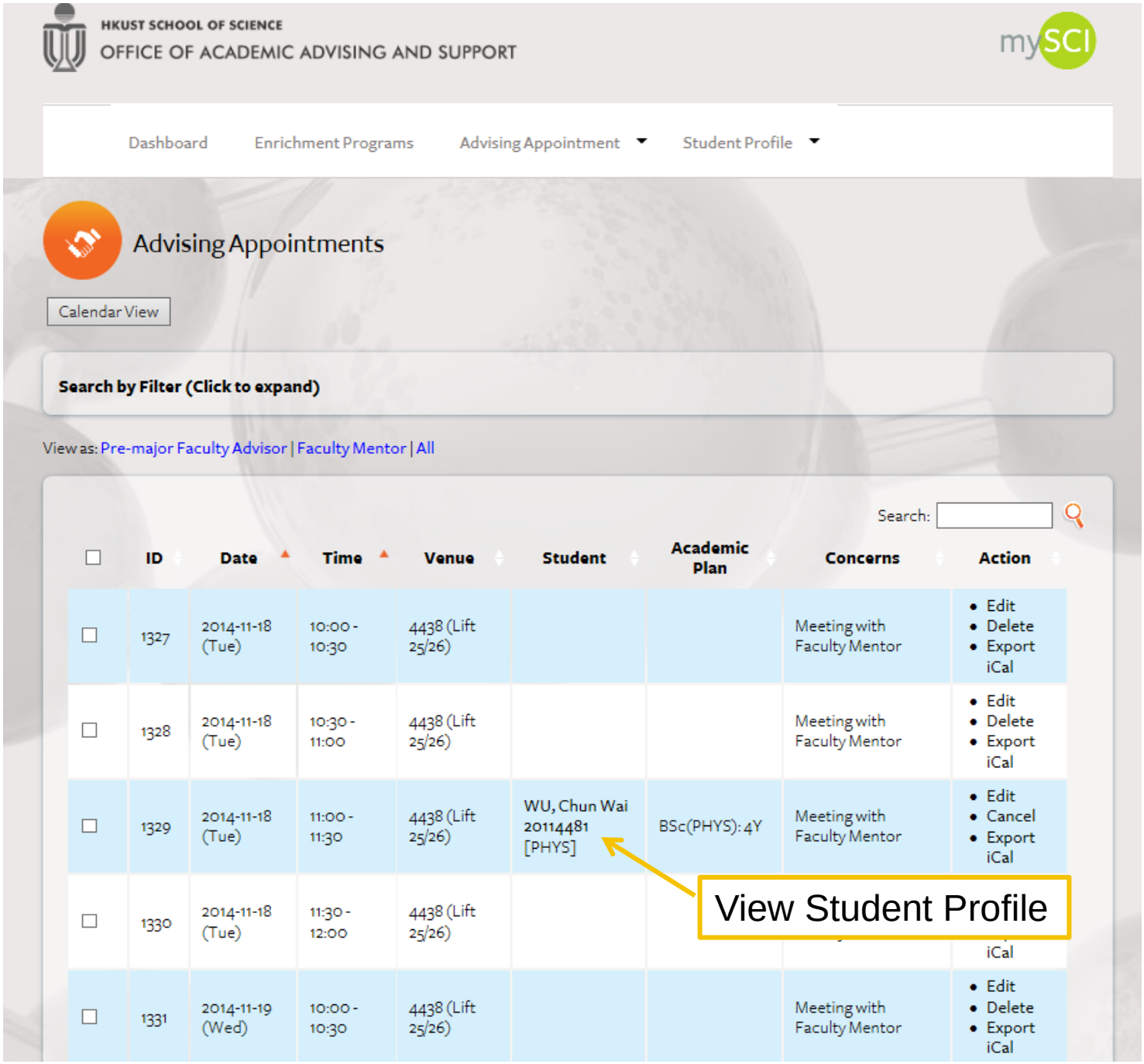


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VIEW YOUR SCHEDULE (CALENDAR VIEW)



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DEMONSTRATION OF MAJOR DECLARATION ADVISING SESSION

Main Round Major Declaration 2018

Student Id: 00000021

Student Name: LEE, Hermia

Important Notes:

1. You must fulfill the major pre-requisite of your choice(s) of major(s) by Spring 2018.
2. Result will be released in June. You will **NOT** be allowed to reject the offer.
3. Please submit this major declaration form, along with the approval from your Pre-major Faculty Advisor on or before **30 April 2018 5pm**. Late submission will not be considered.

Your current Major Choice(s):

1. BSc in Mathematics
2. BSc in Biochemistry and Cell Biology /
   BSc in Biological Science /
   BSc in Biotechnology
3. BSc in Environmental Management and Technology
4. Dual Degree Program in Technology and Management
5. BSc in Biotechnology and Business

Your Life Science Major: BCB

Your Tracks ranking for Mathematics:
1. Applied Mathematics Track
2. General Mathematics Track
3. Computer Science Track
4. Mathematics & Physics Track
5. Pure Mathematics (Advanced) Track

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CASE STUDY

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Q1. How should I rank the majors?

Suggested answer:

Students should rank the majors according to their interest. The order of preference will not affect the priority of the students. Besides, students are allowed to re-prioritize their choices, but they must send email to us at advise@ust.hk during 6 – 10 Jun 2018.

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Q2. What would you do if the student has NOT fulfilled all the major pre-requisites for the intended major?

Suggested answer:

Explore the reasons why he/she has NOT fulfilled the major pre-requisites.

He/she can consider choosing another major or declaring the same major in the second round.

Please discuss what the best is for the student according to his/her interest.

It is not necessary to declare major in the first round if the student does not want to choose another major.

Please indicate this on the declaration survey & send an email to Tina if student decided NOT to declare major in the first round.

Q3. What would you do if the student has fulfilled all the major pre-requisites for the intended major BUT the CGA is relatively low?

Suggested answer:

The Mean CGA of the science students in Fall term is around 2.5. You can tell the students if they want to have some ideas about the academic performance of our students.

If the student's desired major is relatively competitive (MAEC/BIBU /IPO), you could discuss with the student whether he/she should continue choosing the certain major and explore with the student if he/she would have other interested major.

If he/she doesn't have other interested major, he/she needs to declare the same major in the second round, but there is no guarantee that he/she can get into that major. Therefore he/she should seriously consider a second choice in the second round of major declaration

Q4. What would you do if the student is undecided and asks you to help him/her to make the decision?

Suggested answer:

Advisor should give suggestion according to their interest and ability (their strength and weakness).

Explore what kind of career path the student would like to take in the future.

Advisor should NOT make any decision for the student

Q5. I have a CGA of 2.7, do you think I can get into MAEC?

Suggested answer:

Explore the reasons why the student wants to get into MAEC.

Explain to the student that the minimum CGA requirement for MAEC is 3.0 but his/her application is subject to MAEC's decision. So students can also put it in their first choice.

Explain to the student that the quota for MAEC is limited, like ~15, so if he/she has other interested major, he/she can consider to put a second choice in his/her application.

Q6. I got C+ in MATH1013, Can I choose MAEC? What if I get A in MATH1014?

Suggested answer:

Explore the reasons why the student wants to get into MAEC.

Explain to the student that the minimum requirement for MATH1013 is B- but his/her application is subject to MAEC's decision. So students can also put it in their first choice.

Explain to the student that the quota for MAEC is limited, like ~15, so if he/she has other interested major, he/she can consider to put a second choice in his/her application.

Q7. I want to major in Physics and I got an A in Physics course but I got really bad grade in common core, which made my CGA quite low. Do I have advantage for majoring in Physics?

Suggested answer:

The CGA of the best 4 science foundation courses is the primary ranking in the first round of major declaration.

Student's interest always come first.

If his/her interest is in Physics, then he/she should try to choose Physics as the first choice regardless of the poor CGA.

Q8. When can student apply an additional majors, minors, and options?

Student must have their first major before they can apply for another major or minor.

Student does not have to consider options/tracks until they get into their major programs

All declarations for the minor program must be made NO LATER than the last day of the add/drop period in the first regular term of the final year of study.

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Q9. When will major declaration results be released?

Late June/ Early July through email

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