Pre-major Faculty Advisor Handbook 2013-14

Office of Academic Advising and Support
School of Science

For Internal Use Only



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Academic Advising

What is it?

* Academic advising is a developmental process which assists students to clarify their life and career goals; as well as major and course choices.
* Effective academic advising is the key to promote student's learning and satisfaction, particularly during the early stage at University.

Who are We?

* The School established the Office of Academic Advising and Support (理學院學務輔導辦公室) (hereafter refer to as the Advising Office) on August 1, 2011 to assist the students on choosing majors, course selection and requirements.
* Giving advice and support on possible double major, major-minor combination that suits students' interests, abilities and career aspirations.
* The main feature of the School's academic advising system is based upon one-to-one meetings throughout the student's first year.
* The Advising Office will work with faculty members from departments/division to provide students with academic advice and support.



The Office of Academic Advising and Support at Room 1401 (Opposite to LT-B)



From left to right:
Micky Wong, Su Ngai, Prof. Pakwo Leung (Director)
Tina Ko, Yee Lai and Liza Mung

Our Missions:

* Guide students how to investigate and make decisions on majors and careers effectively
* Clarify educational and career goals
* Assist students in understanding the university context and environment
* Promote student growth and development
* Evaluate and monitor student progress

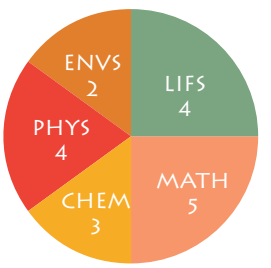
Academic Advising Model

Students have different advising needs in different stages. We adopt a **Student-based Two-phase model** to better address their needs. The dividing point is the time when students choose their majors.

Phase 1. Before students are admitted to their majors:

Primary responsibility is in the Advising Office. Advising Office will provide a wider vision across different majors and schools to the students. Personnel in our academic advising structure will consist of:

1. Student Advising Officers
2. Peer Mentors
3. Pre-major Faculty Advisors



18 Pre-major Faculty Advisors

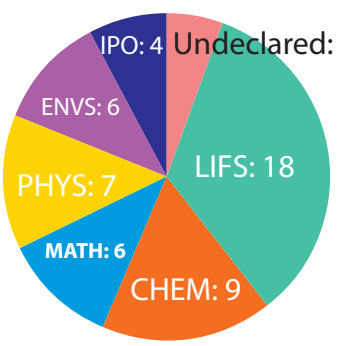
Student Advising Officer

The advising office has a group of experienced advisors with expertise in understanding university policies and regulations, utilizing resources and working specifically with students. They will assist students in interpreting academic requirements and identifying other experiences that will enrich student's university life and learning.



Pre-major Faculty Advisor

They are trained faculty members from different departments/divisions who provide advice to students on major program and course selection, and information about graduation requirements, opportunities and services available to them.



5 3 Peer Mentors

Peer Mentor

The advising office also works with peer mentors in helping students adjust to the new environment in their first year. Students are assigned to a peer mentor who will assist them in navigating the campus as well as directing them to the appropriate academic or administrative departments for further assistance when needed.

536 Science Students (local/non-local)

School Advising Officer ALL science students

Pre-major faculty advisor : science students

1: ~30

Peer Mentor : science students

1: ~10

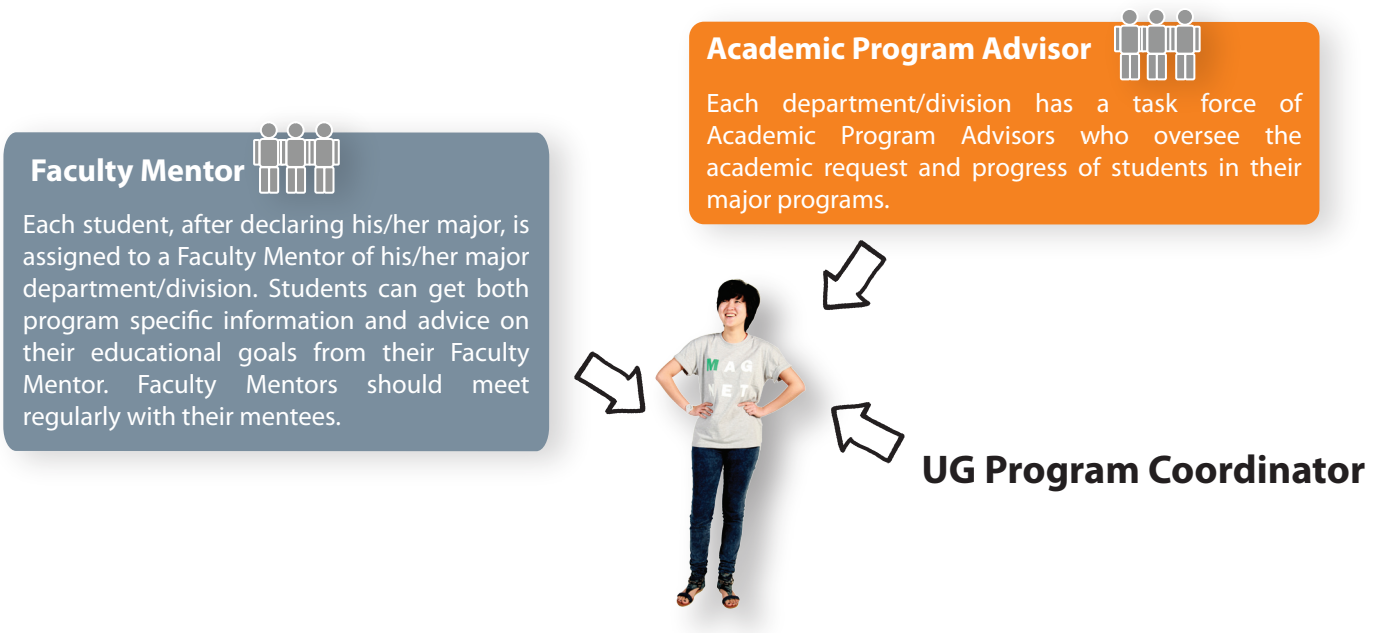
Academic Advising Model(con't)

Phase 2. After students choose their majors:

Primary responsibility is in the individual department/division. Advising activities will mainly be distributed to their respective department/division which can provide more major-oriented advice. Personnel in our academic advising structure will consist of:

1. UG Major Coordinators
2. Academic Major Advisors
3. Faculty Mentors

Their working relation is illustrated in the following diagram:



Advising Timeline and Key Events 2013-14

12 Aug
Program Registration Day
1. Program Registration
2. **School Induction (Part I)**
   - Academic Advising Session
3. Health and Fitness Assessments

2 Sep
Fall Term Commences

31 Aug
School Induction (Part III)
(For local and non-local students)
- Extra co-curricular activities
- MAGNET Peer Mentor Welcome Party





15 Aug
School Induction (Part II)
(For local students)
- Course Selection Induction
- Course Pre-registration Planning

13 Sep
SCIE 1000
Time: 6:00-6:50pm
Venue: please refer to your section on P.6



Oct - Nov
Science Majors Week
Department/Division-organized events where students can learn more about different majors



2012
The Faculty Advisors/Student Advising Officers are available by appointment Monday to Friday during semesters.

8 Nov
SCIE 1000
Time: 6:00-6:50pm
Venue: please refer to your section on P.6

1 Mar -30 Apr
First-round Major Declaration Period

Major Declaration Procedure:

- Fulfill major pre-requisites requirements
- Submit Major Declaration Form by 30 Apr
- Attend interview if needed
- Results released in mid-June
  - Major declared → STUDENT WITH MAJOR
  - No offer

Major pre-requisite requirements

MATH/MAEC/ENVS
MATH 1013 & 1014 or
MATH1023 & 1024 or MATH 1020
BCB/BIOT/BISC/ENVS
LIFS 1901 & 1902
CHEM
CHEM1010 or 1020 & CHEM 1030
PHYS
PHYS 1111 or 1112 or 1312 &
PHYS1114 or 1314

Maximum of 2 choices

Selection criteria:
- Major pre-requisites requirements
- Academic performance at HKUST

1 Dec -30 Dec
Second-round Major Declaration Period





2013
The Faculty Advisors/Student Advising Officers are available by appointment Monday to Friday during semesters.

mid-Jan
Faculty Advisor Sharing Session

4 Feb
Spring Term Commences

Information as of 22 Aug 2013

SCIE 1000

Course description:

This is a **one-year course** designed for **year 1 Science students.** It provides induction activities to help students adapt to university life, and to understand the program structure of the School and the meaning of university education. Led by faculty, staff, and peers, students will learn and practice skills such as teamwork, communication, time management, and goal setting.

Number of Credit: 0 Credits
Course Grading: Pass/Fail (P/F)
Course Duration: 2 Terms (Fall & Spring)
Course Requirement for Fall Term: SIX compulsory + TWO selective activities

Intended Learning Outcomes

By the end of this course, students should be able to

1. Know how to schedule appointments with their academic advisor and utilize advising services appropriately to meet graduation goal.
2. Be aware of important policies and deadlines and understand how to access the information (e.g. calendars, catalog, and academic advising services).
3. Know how to prepare for advising session, mechanisms and timeframe for declaring their major, and how to prepare for post-graduation plans (graduate school, employment, internships, life goals, etc).
4. Become familiar with campus resources.
5. Express their opinions and concerns in both small and large group settings.
6. Develop teamwork skills.

Fall Term Schedule

6 compulsory sessions

1. **6 Sep:** Induction
2. **13 Sep:** Meet your Pre-major Faculty Advisor
3. **4 Oct:** Student Experience Sharing
4. **28 Oct-1 Nov:** Any one-hour Major Info Session during "Science Majors Week"
5. **8 Nov:** Meet your Pre-major Faculty Advisor
6. **11- 15Nov:** Your Spring Course Pre-registration session (About 30mins)

+ 2 selective activities **(Only activities labelled as SCIE 1000 will be counted)**

For example:
- Go Science Luncheon (from 26 - 30 Aug)
- Activities organized by Pre-major Faculty Advisors or Peer Mentors
- Study group
- DISC behavioral style analysis (one to one service)
- School-organized seminars and activities
- Activities organized by SAO Counseling & Development

Assessment:

Attendence and pre/post self-assessment

Absence

* In case of absence, student will have to complete a makeup journal.

SCIE 1000

There are 18 sessions for SCIE 1000. 2-3 peer mentors will assist you in your session.

Section	Pre-Major Faculty Advisor	Peer Mentors	
T1	**Prof. Kenny K. CHUNG**/bokchung@ust.hk Room 4472 (Lift 25-26) 6:00-6:50pm	**Jane**/ jchenav@stu.ust.hk **Arthur**/whwongak@stu.ust.hk	**Cyrus**/chngae@stu.ust.hk
T2	**Prof. Pingbo HUANG**/bohuangp@ust.hk Room 5506 (Lift 25-26) 6:00-6:50pm	**Him**/thlamad@stu.ust.hk **Joyce**/mwwongaa@stu.ust.hk	**Lin**/yswongai@stu.ust.hk
T3	**Prof. Robert KO**/bcrko@ust.hk Room 3008 (Lift 3-4) 6:00-6:50pm	**Lok Lok**/ylman@stu.ust.hk **Kenneth**/ktyiu@stu.ust.hk	**Satien**/swiliawaty@stu.ust.hk
T4	**Prof. Hongbin LIU**/liuhb@ust.hk Room 4475 (Lift 25-26) 6:00-6:50pm	西瓜/chchanbk@stu.ust.hk **Pui Lam**/plngab@stu.ust.hk	**Eric**/ship@stu.ust.hk
T5	**Prof. Robert Z.Qi**/qirz@ust.hk Room 5508 (Lift 25-26) 6:00-6:50pm	輝仔/cfchanad@stu.ust.hk **Dana**/czhouad@stu.ust.hk	**Lam**/wllau@stu.ust.hk
T6	**Prof. Wan Simon CHAN**/chanwan@ust.hk Room 5562 (Lift 27-28) 6:00-6:50pm	**Shing**/kschanai@stu.ust.hk **Leo**/hchuab@stu.ust.hk	**Canace**/wmchengab@stu.ust.hk
T7	**Prof. Guocheng JIA**/chjiag@ust.hk Room 5560 (Lift 27-28) 6:00-6:50pm	**Andy**/otleung@stu.ust.hk **Judy**/yyuak@stu.ust.hk	**Cecilia**/lyhoaa@stu.ust.hk
T8	**Prof. Lam Lung YEUNG**/chyeungl@ust.hk Room 2465 (Lift 25-26) 6:00-6:50pm	**Sephira**/asalim@stu.ust.hk **Michelle**/wspangaa@stu.ust.hk	綠茶/hkleead@stu.ust.hk
T9	**Dr. Wing Lung LEE**/malung@ust.hk Room 2463 (Lift 25-26) 6:00-6:50pm	**Raxen**/cwlauac@stu.ust.hk **Jacky**/ykjye@stu.ust.hk	**Yan**/yywongai@stu.ust.hk
T10	**Prof. Shing Yu LEUNG**/masyleung@ust.hk Room 3412 (Lift 17-18) 6:00-6:50pm	**Jay**/kkhuiaa@stu.ust.hk **Kathy**/smlo@stu.ust.hk	**Kiki**/kkliad@stu.ust.hk
T11	**Prof. Shi Qing LING**/maling@ust.hk UC101, University Center 6:00-6:50pm	**Kin Chen**/thlamad@stu.ust.hk **Hazel**/mwwongaa@stu.ust.hk	**Chloe**/yswongai@stu.ust.hk
T12	**Prof. Min YAN**/mamyan@ust.hk Room 2464 (Lift 25-26) 6:00-6:50pm	**Cynthia**/hychongaa@stu.ust.hk **Zheng Rui**/zrpang@stu.ust.hk	**Alison**/jhhor@stu.ust.hk
T13	**Dr. Chi Wai YU**/macwyu@ust.hk Room 3588 (Lift 27-28) 6:00-6:50pm	**Winnie**/wyleeae@stu.ust.hk **Vico**/ytpat@stu.ust.hk	**Ken**/ckleungai@stu.ust.hk
T14	**Prof. Tian Wen CHEN**/twchen@ust.hk Room 3584 (Lift 27-28) 6:00-6:50pm	**Pat Pat**/sklo@stu.ust.hk	**Fiona**/wtflo@stu.ust.hk
T15	**Prof. Vic LAW**/phlaw@ust.hk Room 3007 (Lift 3-4) 6:00-6:50pm	**Henry**/hltong@stu.ust.hk **Coleman**/cyuab@stu.ust.hk	**Miki**/pmyip@stu.ust.hk
T16	**Prof. Wing Yim TAM**/phtam@ust.hk UC104, University Center 6:00-6:50pm	**Christy**/ywhoab@stu.ust.hk **Flymm**/flng@stu.ust.hk	**Victor**/htlamae@stu.ust.hk
T17	**Prof. Kam Sing WONG**/phkswong@ust.hk Room 6591 (Lift 31-32) 6:00-6:50pm	**Carman**/mlchowaa@stu.ust.hk 雪耳/wspangaa@stu.ust.hk	**Shreya**/hkleead@stu.ust.hk
T18	**Dr. Ice KO**/iceko@ust.hk Room 4619 (Lift 31-32) 6:00-6:50pm	**Samson**/kccho@stu.ust.hk **Kin Wong**/kwongag@stu.ust.hk	黎依/yllaiaa@stu.ust.hk

SCIE 1000 Course Syllabus for Fall 13-14

Week	Syllabus	Organiser/ Facilitator(s)	Format
Week 1 6 Sept	**Introduction to** **1. SCIE 1000** **2. School Academic advising** **3. OBE** **4. School Co-curricular opportunities** **5. SAO Counseling services** **Objectives:** - To give students an overview of the course. - To explain the importance of academic advising in the early stage of University life - To explain the importance of co-curricular learning and give them an overview of the opportunities offered by the School - To introduce the SAO counseling services and encourage students to seek help from them when needed.	Advising Office	Mass session
Week 2 13 Sept	**Connecting with your advisor and peer mentor** **Objectives:** We believe communication is a key part to building a healthy relationship which is crucial to student advising. This first meeting allows students and advisors to know each other in a causal setting. Peer mentors will participate to help facilitate group conversation. For details of this session, please refer to the advising syllabus	Pre-major Faculty Advisor	Small group
Week 5 4 Oct	**Student Experience Sharing (Topical sessions)**	Peer Mentors	Mass session
Week 9 28 Oct - 1 Nov	**Science Majors Week** **(Student must attend at least ONE info session)** **Objectives:** New students entering to the university may not have a thorough understanding of each science major, yet they have to consider their major preference as well as the major pre-requisite requirement when choosing courses during the course registration. Science Majors Week provides an occasion for students to learn about each major in an early stage such that they could change their study plan if necessary during add/drop period	Advising Office	Mass session
Week 10 8 Nov	**Review of Study Progress** **Objectives** New students might not be familiar with the university assessment methods and approaches. Some students may have adjustment problems eg. Frustration in catching up the course material, stress during mid-term or simply giving up and skipping classes. We hope by meeting them after mid-term, can spot out students who have learning difficulty and give them timely support.	Pre-major Faculty Advisor	Small group
Week 11 15 Nov	**Spring Course Pre-registration Workshop** **Objectives:** To guide students through the course pre-registration procedures and make sure they are on the right track towards major declaration.	Advising Office	Small group

SCIE 1000

Week 2 (13 Sept):

Connecting with your advisor and peer mentor

The purpose of the initial meeting is to establish contact between you and your advisees, let them know what academic advice they can seek from you. While your primary advising role is academic, your connection with your advisees may well make you a first point of contact if they are struggling with any aspect of their lives. If you find yourself concerned about a student's well being for any reason, remember there are places to turn. Don't hesitate to call the Advising's Office for support.

Suggested Class Plan

18:00-18:05:	1. Take attendance. 2. Introduce yourself. For example, what university did you graduate from? How did you end up teaching in HKUST? 3. Briefly tell them what kind of advice you can give them
18:05-18:15:	Pre-assessment They need to fill out a Pre-Assessment form (see next page) and they will do a Post-assessment near the end of the term. Explain to them that you will meet them again to see their progress. Peer mentors will bring the forms to the class. Please collect and keep the completed pre-assessment forms for your future follow-up
18:15-18:40:	Ice Breaking Game: • Students introduce themselves • Divide students into 3 groups. • You and the peer mentors, each leads a group. If you have more than 2 peer mentors, one of the peer mentors will be in the same group with you. • Students take turn to tell three statements about themselves, in which only one is correct and the other groupmates have to guess which one is the correct.
18:40-18:50:	First Year Questionnaire All year 1 students are required to fill out a questionnaire regarding their background, interest and talents. The information collected is highly confidential. The School will try to match any opportunities/resources with their interests, talents and needs. Peer mentors will bring the questionnaire to the class. Please collect and return the completed questionnaires to our office for our future follow-up

REMINDER for the new students:

14 Sept is the last day of add/drop period. Please remind them to clear the courses in the waiting list if they do not want to take those courses. Otherwise they will be enrolled automatically if seats are allowed.

SCIE 1000

Pre-Assessment Form

Name: _____ ID:_____ Date: _____

Please indicate your level of agreement with the following statements:

	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Academic Adjustment					
I am adjusted to the learning styles at university	☐	☐	☐	☐	☐
I have developed effective study habits	☐	☐	☐	☐	☐
I feel capable of completing my coursework.	☐	☐	☐	☐	☐
I am able to manage the time between academic and social activities effectively.	☐	☐	☐	☐	☐
I attend lecture regularly.	☐	☐	☐	☐	☐
I feel confident in choosing my major next year.	☐	☐	☐	☐	☐
Social Adjustment					
I am meeting people and making friends.	☐	☐	☐	☐	☐
I have established friendship with other students.	☐	☐	☐	☐	☐
I have participated in some student/ society activities.	☐	☐	☐	☐	☐
I feel supported by my peers and family.	☐	☐	☐	☐	☐
Personal Emotional Adjustment	☐	☐	☐	☐	☐
My appetite is not as good as it used to be.	☐	☐	☐	☐	☐
I lost interest in things and people around me.	☐	☐	☐	☐	☐
Most of the time, I struggle to focus my attention.	☐	☐	☐	☐	☐
I have difficulty falling asleep at night.	☐	☐	☐	☐	☐
Attachment	☐	☐	☐	☐	☐
I have developed clear academic goal.	☐	☐	☐	☐	☐
I enjoy the study environment at HKUST.	☐	☐	☐	☐	☐
I am aware of the university resources.	☐	☐	☐	☐	☐
I know where to seek help when I have question/problem.	☐	☐	☐	☐	☐
Overall, I am satisfied with my university life.	☐	☐	☐	☐	☐

SCIE 1000

Week 2 (8 Nov):
Review of Study Progress

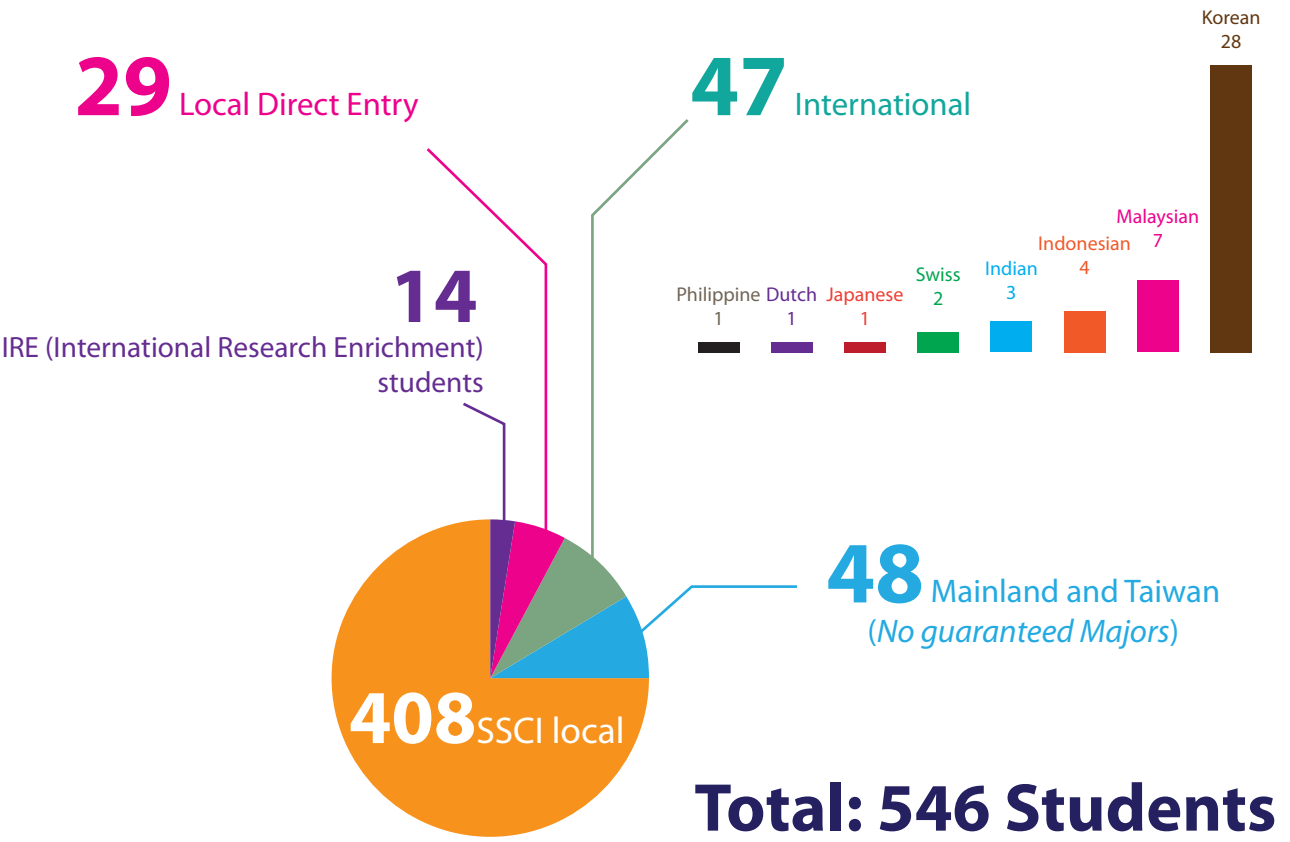
New students might not be familiar with the university assessment methods and approaches. Some students may have adjustment problems e.g. frustration in catching up the course material, stress during mid-term or simply giving up and skipping classes. We hope by meeting them after mid-term, can spot out students who have learning difficulty and give them timely support.

Suggested Class Plan

18:00-18:05:	Take attendance.
18:05-18:20:	Review student's adjustment experience at HKUST Invite each student to think of two words to describe their experience at HKUS and explain why
18:20-18:30:	Post-assessment Students are required to fill out a Post-Assessment form (similar to the previous page). Please see if there are any significant changes in the pre-post assessment and meet with the individual student in another meeting if neccessary. Please make referrals to our office if deemed appropriate. Peer mentors will bring the forms to the class. Please collect and return all the completed pre- and post-assessment forms to our office for follow up
18:30-18:45:	Small Group Discussion - Divide students into 3 groups. - You and peer mentors, each leads a group - Ask them to write down the useful university resources/ personal coping methods
18:45-18:50:	Open Q&A about choosing Majors

Quick Facts

Science Students Intake 2013-14



Total: 546 Students

Information as of 23 Aug, 2013

Admission Scores (unweighted):

SSCI JUPAS students		**IRE students**	
Highest Score:	**34**	Highest Score:	**38**
Mean Score:	**27.04**	Mean Score:	**35**
Lowest Score:	**25**	Lowest Score:	**32**

Calculation of Admission Scores: (Sum of the Best 6 Subjects)

1 English Language
2 Chinese Language
3 MATH (Compulosry Part)
4 Liberal Studies
5 Best of (Bio/Chem/Phys/CombinedSci)
6 Next Best Elective/M1/M2

DSE Grade:	1	2	3	4	5	5*	5**
Admission Score:	1	2	3	4	5	6	7

Quick Facts (Con't)

10 Majors + 1 Five-year Program

Department of Chemistry

1 Chemistry (CHEM)
- Biomolecular Chemistry Option
- Environmental and Analytical Chemistry Option
- Material Chemistry Option
- Pure Chemistry Option
- International Research Enrichment Track

Division of Life Science

2 Biochemistry and Cell Biology (BCB)
- International Research Enrichment Track

3 Biological Science (BISC)

4 Biotechnology (BIOT)
- International Research Enrichment Track

Department of Physics

5 Physics (PHYS)
- Applied Physics Option
- Physics and Mathematics Option
- Pure Physics Option
- International Research Enrichment Track

Department of Mathematics

6 Mathematics (MATH)
- Applied Mathematics Track
- Computer Science Track
- Mathematics and Physics Track
- Pure Mathematics (Advanced) Track
- Pure Mathematics Track
- Statistics and Financial Mathematics Track
- International Research Enrichment Track

7 Mathematics and Economics (MAEC)

School of Science

8 Environmental Science (ENVS)
- International Research Enrichment Track

Interdisciplinary Programs Office

9 Environmental Management and Technology (EVMT)

10 Risk Management and Business Intelligence (RMBI)

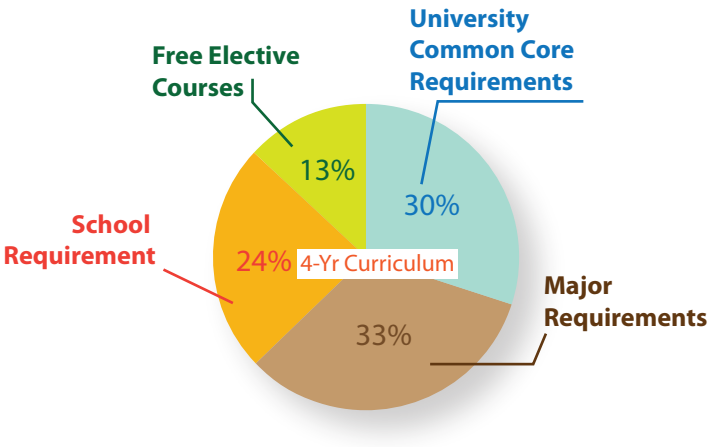
5-year program Dual Degree Program in Technology and Management
(Please note that this is a 5-year program open for SSCI/SENG/SBM students)

6 Majors for IRE students

- IRE students can only choose among 6 majors (those with the International Research Enrichment Tracks. Please see above)
- IRE student can have **FREE CHOICE** of major

Graduation Requirements

The minimum credit requirements for graduation is 120.



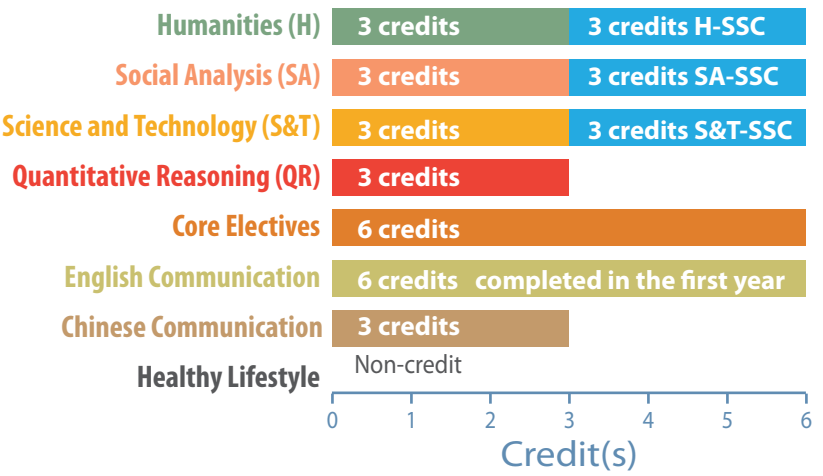
Understanding University Common Core

* A broad-based education
* An all-round developmental experience

We wish our students to

* Learn outside their major discipline
* Learn to integrate different fields of knowledge
* Find their direction for a lifelong pursuit
* Acquire skills to realize their personal goals
* Challenge them to think
* Explore their role among their friends and in their family
* Explore their identity in the community and the society
* Contribute to the society and the world

Total credits required: 36 credits



School-sponsored courses (SSC):

Intended to be hallmark courses of the offering Schools and be representative of the uniqueness and values of the Schools, plentiful resources have been earmarked and devoted to developing these courses.

Notes for selecting common core courses

1. No HKUST prerequisite courses are required for students to take all common core courses
2. Some common core courses may be listed under more than one common core area. Students can choose to count towards **ONE** of the listed areas **BUT NOT BOTH**.
3. May **RE USE** common core credits to count toward other graduation requirement, subject to other restrictions as specified by the School/major program. (*SSCI: Students may reuse up to* **6 credits** *of courses to count towards both the* **School Requirements** *and* **the University Common Core requirements.**)
4. Only common core courses taken in the year when they are listed as such can be used to satisfy **the Common Core requirement.**

Course lists (updated every year):

As the Common Core course list may change from time to time, students should check the course list (appropriate to their year of admission and program of study) before course registration to ensure that they are selecting current Common Core courses to satisfy the Common Core requirement.

The course list is maintained by UCE Team (Provost Office)
http://uce.ust.hk/cgi-bin/web/home/index.php

University Common Core (con't)

When to enroll?

1. Check the common core course offering schedule
2. Find out from the **Normative Student Study Pathway** for the suggested terms to take common core courses.
3. Students are suggested to take School-Sponsored Courses (SSC) in **early terms. Please note that more Humanities School-Sponsored Courses will be available in the future, if students cannot find courses that fit their interest, they can take it in later terms.**

Recommended pattern of taking common core course credits

1st yr — 15 credits

For Science Students:

- **LANG 1002 and LANG 1003 (6 credits E-comm)**
- **MATH 1013/1023**
  (can be counted towards 3 credits QR)
- **Students who take Science Foundation courses**
  PHYS 1001 PHYS 1112
  PHYS 1111 CHEM1004
  in their first year can count one of them toward 3 credits S&T
- **You can suggest them to take S&T School Sponsered Courses (3 credits S&T SSC)**

2nd yr — 9 credits

3rd yr — 6 credits

4th yr — 6 credits

University English Requirement (12 Credits)

Under the regulations for the 4-year degree, all students are required to complete 12-credit University English Requirement. Details of the requirement and courses will be announced by the Language Center at http://lc.ust.hk

It includes

6-credit Common Core E-Comm (LANG1002&LANG1003)
3-credit School Required English (Course LANG 2010)
3-credit English Course required by departments/ programs
(To be updated, please check http://lc.ust.hk)

Some of the courses in School Requirements can also fulfill Major Requirements and University Common Core Requirements. Overlapping courses are highlighted in Blue in the table below.

For example: If students have taken MATH1013, you can fulfill:
1. **School Requirements**
2. **University Common Core Requirements - QR**
3. **Major Requirements of MATH/MAEC**

IMPORTANT NOTE!

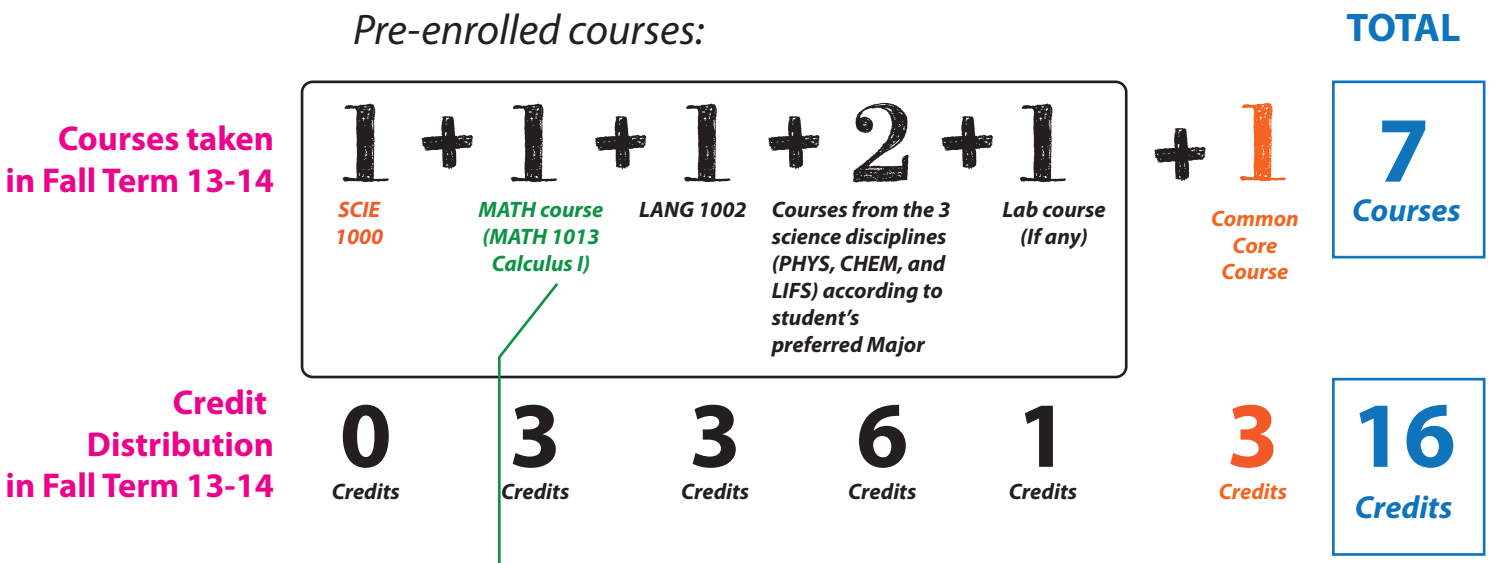
- **Only a maximum of 6 credits can be used to fulfill both School Requirements and University Common Core Requirements**
- **There is NO credit limilt for courses that can be used to fulfill both School Requirements and Major Requirements**

Major Pre-requisites/ Major Requirements	School Requirements		University Common Core Requirements
	SCHOOL Induction		
	SCIE 1000	Science School Induction	
	ONE IT Course		
	COMP 1001	Exploring Multimedia and Internet Computing	S&T
MATH/MAEC/PHYS/EVMT/RMBI	COMP 1021	Introduction to Computer Science	QR
MATH/MAEC/PHYS/EVMT/RMBI	COMP 1022P	Introduction to Computing with Java	QR
MATH/MAEC/PHYS/EVMT/RMBI	COMP 1022Q	Introduction to Computing with Excel VBA	QR
	ONE LANG Course		
	LANG 2010	English for Science I	
	ONE Lab		
CHEM/BCB/BISC/BIOT	CHEM 1050	Laboratory for General Chemistry I	
CHEM/BCB/BISC/BIOT	CHEM 1055	Laboratory for General Chemistry II	
BCB/BISC/BIOT	LIFS 1903	Laboratory for General Biology I	
BCB/BISC/BIOT	LIFS 1904	Laboratory for General Biology II	
PHYS	PHYS 1113	Laboratory for General Physics I	
PHYS	PHYS 1115	Laboratory for General Physics II	
	SEVEN Lectures **(at least 1 but no more than 3 from each discipline)**		
	CHEM 1004	Chemistry in Everyday Life	S&T
CHEM/BCB/BISC/BIOT/ENVS	CHEM 1010	General Chemistry IA	
CHEM/BCB/BISC/BIOT/ENVS	CHEM 1020	General Chemistry IB	
CHEM/BCB/BISC/BIOT/ENVS	CHEM 1030	General Chemistry II	
EVMT	MATH 1003	Calculus and Linear Algebra	QR
MATH/MAEC/ENVS/EVMT/RMBI	MATH 1013	Calculus I	QR
MATH/MAEC/ENVS/RMBI	MATH 1014	Calculus II	
MATH/MAEC/ENVS/EVMT/RMBI	MATH 1020	Accelerated Calculus	QR
MATH/MAEC/ENVS/EVMT/RMBI	MATH 1023	Honors Calculus I	QR
MATH/MAEC/ENVS/RMBI	MATH 1024	Honors Calculus II	
PHYS/MATH/MAEC	MATH 2023	Multivariable Calculus	
PHYS/MATH/MAEC	MATH 2121	Linear Algebra	
	PHYS 1001	Physics and the Modern Society	S&T
PHYS	PHYS 1111	General Physics I	S&T
PHYS	PHYS 1112	General Physics I with Calculus	S&T
PHYS	PHYS 1114	General Physics II	
PHYS	PHYS 1312	Honors General Physics I	
PHYS	PHYS 1314	Honors General Physics II	
BCB/BIOT/BISC/ENVS	LIFS 1030	Environmental Science	S&T SSC
BCB/BIOT/BISC/ENVS	LIFS 1901	General Biology I	
BCB/BIOT/BISC/ENVS	LIFS 1902	General Biology II	

Course Selection and Registration

Course Registration

During the first year 2013-14, all science students are required to take



Math Courses student should take in Fall Term

All science students are pre-enrolled to **MATH1013** except that

- JEE students who would like to declare in Math can take **MATH 1023**
- DSE students who have 5 or above in M2 and would like to declare in Math can take **MATH 1023**

Course Selection and Registration Con't

Description of different Single Variable Calculus Courses

Math1013/1014: Complete single variable calculus at normal level. Students are expected to know the basic concepts and carry out the computations.

Math1023/1024: Complete single variable calculus at more advanced level. Students are expected to understand the basic concepts and make simple theoretical arguments (such as providing reason for the specific computation, quite a bit of proofs). This is an honor course of Math1013/1014.

(Students with 5 or above in M2 are encouraged to try out these honor classes)

Math1020: Advance material in single variable calculus. Expected students have learnt well in calculus before (M2 with 5* or above). The course contains advance material so that students who passed Math1020 can continue studying the other higher level math courses.

Math1003: Minimum material in single variable calculus. The course provides the basic knowledge of calculus but not enough for further study in more advanced math courses.

Credit Load

In each regular term, students within their normal duration of study and in good academic standing must register for courses to a total of **16 credits on average,** but **at least 12 credits** and **no more than 18 credits**

Credit Overload Approval

In principle, faculty should **REJECT** all the request of credit overloading in the First Term. If you have questions, contact the Advising Office.

Credit Transfer Approval

All credit transfer request are sent to the Advising Office for approval

Apply for Credit Transfer Students can get Credit Transfer Request form at ARRO and return the completed form to the Advising Office for approval.

Add/Drop Approval

* Students cannot drop any pre-requisite science courses. They can only **swap** between courses. Please note that if no other pre-requisite courses are available, then they cannot drop the course.

* If students want to swap between science courses, make sure they check the quota for the Laboratory course that match with the science lecture courses he/she want to add.

* No approval is needed for Common Core courses (students can do it on SIS by themseleves)

University Policies and Regulations

* Please be reminded that if you notice any students who have CGA of 1.5 or below, we recommend you to contact the students and see if there is any study difficulty or anything that we could offer help for them.

Registration for Additional Majors

The new regulations explicitly allow for students to take additional majors. This replaces the existing arrangement for students to graduate with a dual-major designation. With the approval of the relevant Major-program Coordinators, students may complete the requirements for more than one major. Students who wish an additional major to be recorded on their transcript, must register in the major no later than the last day of the Add/Drop period in the first regular term of their final year of study.

Change to International Research Enrichment (IRE) Track

Students who have excellent academic performance and are interested in research may consider to change to the International Research Enrichment (IRE) Track. But quota for IRE track is VERY limited and applications will be reviewed by the School's IRE committee panel. They can try to enrol in SCIE1500 in Spring term to learn about the reserach opportunities in the School of Science.

SGA / CGA / TGA / GGA

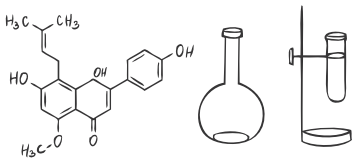
* The Senate has approved using students' Cumulative Grade Average (CGA) to assess academic progress, rather than the Semester Grade Average (SGA) with effect from May 2011.
* Under the old regulations, students were allowed to exclude some course grades from the calculation of their GGA if these courses were not required for graduation and if their department approved. The new regulations allow this for all students, but limit the number of surplus courses to be excluded from the GGA to a total of 9 credits.
* To classify awards, GGAs not CGAs are used. In calculating a GGA, courses taken in the first year of study are half-weighted. No change has been made in the way that GGAs are calculated.

Category of Academic Regulations	***4-Point System***
Academic Probation	CGA < 1.5
Dean's List	TGA ≧ 3.7*
Academic Achievement Medal	Final CGA ≧ 3.9
First Class Honors	GGA 3.500 - 4.300
Second Class Honors Division One	GGA 2.850 - 3.499
Second Class Honors Division Two	GGA 2.150 - 2.849
Third Class Honors	GGA 1.500 - 2.149

* Under the old regulations, students were informed of academic dismissal and were able to appeal to the Office of the Provost. Under the new regulations, students are given an opportunity for review by their School and will be asked by the School to provide any additional information about their situation that would explain their poor performance. Schools will then make a recommendation to the Provost.

Degree and Career

Chemistry



Students will study all aspects of chemistry and related disciplines; general areas covered include analytical chemistry, inorganic chemistry, organic chemistry, and physical chemistry. Specialized areas include environmental chemistry, medicinal chemistry, biological chemistry, polymer chemistry, and materials chemistry including nanostructures, advanced instrumentation, advanced computational and theoretical chemistry.

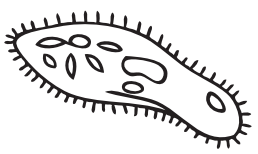
Career Prospects:

Chemistry graduates will have opportunities of working in the area of chemical science, education and technology, chemistry related business, commodity markets, or further study in graduate research. Since studying in chemistry would train up student's analytical thinking and some generic skills, the variety of job opportunities are flexible.

Highlight:

In order to declare an option in chemistry, student needs to take three chemistry elective courses and two laboratory courses that are related to the specific option.

Life Science
Biochemistry & Cell Biology



Students will study how biomolecules work together in both simple experimental systems (Biochemistry) and also within cells (Cell Biology), the fundamental building blocks of all living organisms. The early curriculum is broad-based and provides students with a strong foundation in fundamental concepts and principles of Biochemistry and Cell Biology. This will enable students to explore and develop their own interests in various aspects of molecular life science, via taking more advanced and specialized electives as they progress through the major. BCB students will also have the option of significant practical training and research opportunities in the latter part of their studies.

Career Prospects:

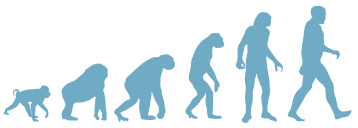
BCB graduates will have a broad range of career options, being well prepared for graduate research training and future employment opportunities in academic, medical or biotechnology related research. However, BCB graduates will also be well placed to pursue more vocational scientific careers in research or in private/government sectors requiring a life science background, including healthcare, biotechnology and education. Life science is in truly exciting times, with recent advances in technology and societal expectations driving an expansion in training and employment opportunities. BCB graduates will be very well placed to benefit.

Highlight:

The objective of the BCB major is for graduates to have a sound factual, conceptual and practical competence in molecular life science and to be prepared, should they so wish, for research training. However Molecular Life Science can also readily be studied at multiple levels and thus can accommodate a wide range of student aptitude and motivation. By taking the required year one classes, it should be relatively easy for students without high school biology background to enter and prosper in the BCB major.

Degree and Career Con't

Life Science
Biological Science



This flexible major aims to provide students, regardless of previous background, with a general coverage and a basic understanding of major principles, concepts and technologies of modern biology; including animal, plant, evolutionary and environmental biology. The major offers minimal training in basic laboratory techniques but practical laboratory experience is available on the basis of elective courses. The flexibility of this major enables students to undertake an additional major or a major with minor(s) via elective courses offered by other academic departments such as Social Sciences, Humanities and Business Studies.

Career Prospects:

The emphasis of this major is the broadness study of general biological knowledge and background, which providing students with comprehensive training in transferable skills and opportunities in independent learning required for all varieties of potential career. More than 50% of our Biological Science graduates, who armed with strong skills in acquisition of scientific enquiry and critical thinking, are engaging in jobs of interdisciplinary in nature. Moreover, students will have better problem solving skills and analytical skills throughout science training. Therefore, they will have a broad range of career options.

Life Science
Biotechnology



This major focused on basic and advanced biotechnological elements that lead to production, modification and adaptation of life. It provides students with theoretical and practical knowledge of the latest biotechnological developments. The curriculum components require basic understanding of concepts across various biological spectra including cell biology, molecular biology, microbiology and genetics. Step-by-step procedures in construction of recombinant DNA will be exploited practically with potential applications in mind. It is more focus on the applied aspects of life science.

Career Prospects:

The major equips students with wide biotechnological background to meet the foreseeable demand in the markets of pharmaceutical, agricultural and business. The underlying objective of the major is to cater for the growing demand of biotechnologists in the fields of education, herbal medicine, agriculture, and health industry. Career opportunities are amply available in both the government as well as private sectors.

Highlight:

The objective of studying life science subjects is to train student's abstract thinking, in which any outcome is always based on evidence to proof their functions and reactions in life. The requirement of mathematics is relatively low when comparing with other science majors. The mentality is different because students would use certain formula to solve a problem in mathematics but in life science, student would need to use laboratory experiment to proof the outcome instead. Therefore, student who is taking life science major will need to take some certain courses of chemistry but only the basic course of mathematics is required.

Degree and Career Con't

PHYSICS



Everything from the tiniest elementary particle to the ultimate fate of the universe, and provides the foundation for all of modern science and engineering. As a physics student, they will have the opportunity to learn about exciting topics ranging from quantum computing and nanotechnology to quarks, black holes and superconductivity.

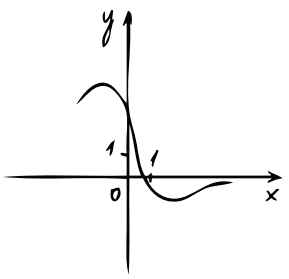
Career Prospects:

Student could pursue further study or work in the fields of teaching, research, technical sales, forensic science, medical industry (Physicist) commerce, banking… etc. Since students are trained with good analytical skills and problem solving skills, the variety of job opportunities are quite flexible. Career opportunities are amply available in both the government as well as private sectors.

Highlight:

Students might interest in this major if they are eager to find out the underlying physical law that governs how things behave or they always have question like why things happen.

MATH



There are six tracks under Mathematics major:

- Applied Mathematics Tracks
- Computer Science Track
- Mathematics and Physics Tracks
- Pure Mathematics Tracks
- Pure Mathematics (Advance) Tracks
- Statistics and Financial Mathematics Tracks

Career Prospects:

Pursue further study, teaching or being an analyst in the field of Consultancy Company, Government and non-government organization, financial company… etc..

Degree and Career Con't

MATH
Mathematics and Economics

This major is jointly offered by Department of Mathematics and Department of Economics of HKUST. Roughly half of the required courses in this curriculum are mathematics courses, and the other half are economics courses.



Career Prospects:

Career prospects are similar to those MATH graduates, in which they can pursue further study, teaching or being an analyst in the field of Consultancy Company, government and non-government organization, financial company… etc.

Environmental Science



Environmental science is related to everyone's daily life because the environment is an integrated system that encompasses the physical component (air, land, and water), biological component (living organisms and their interactions), human populations, as well as the inter-relationships among these components. The major intends to provide students with a solid training in relevant areas with a special focus in eco-systems.

Career Prospects:

Throughout the ENVS major, students would be better equipped for working in government agencies (Agriculture, Fisheries and Conservation Department, Environmental Protection Department), environmental consultancies (environmental impact assessments, natural resource management), environmental related NGOs, public education (teachers, conservation groups, ecotourism), and research.

Hightlight:

Do you know how environmental science could be related to the economy?

The tradeoff for economic growth is always causing environmental disturbance. In order to minimize the disturbance and loss, environmental impact assessment is taken place to regulate the balance. Carbon trading is one of the commodities trading that allow individuals, companies or nations to participate in trading carbon emission. Therefore, there is wide variety of jobs available in the sector.

Degree and Career Con't

IPO
Environmental Management and Techology

Student will learn the knowledge and the skills to engage environmental problems in business, government or non-governmental settings. The practical component gets student working on real world problems with our corporate partners, staying abreast of current issues and practicing students' skills with real problems. In addition to global issues, the major also addresses environmental problems relevant to Asia, Mainland China and Hong Kong.



Career Prospects:

Career prospects are similar to those MATH graduates, in which they can pursue further study, teaching or being an analyst in the field of Consultancy Company, government and non-government organization, financial company… etc.

IPO
Risk Management and Business Intelligence



The major focuses on how risk management and business intelligence forms a vital part of a company's strategic planning and decision making. In order to assess and minimize risk effectively, students will also learn how to analyze and manage the ever-growing volume of business data. In order to make use of business intelligence as part of the company strategies, students will learn how to analyze and predict the business trends and opportunities from the data and learn the BI technologies for information collection and business performance monitoring.

Career Prospects:

Students could end up working in regional and global banks, insurance companies and asset management firms to large industrial corporations and multinationals, securities regulators and universities, among others. Graduates are well prepared for positions such as risk analyst, quantitative analyst, credit analyst, business-planning analyst, actuarial and insurance consultant, and data-mining consultant… etc.

FAQs

Questions on Major

1. What is the difference among three majors in Life Science?
- Biochemistry and Cell Biology (BCB)
- Biological Science (BISC)
- Biotechnology (BIOT)

In general, BISC covers the basic knowledge and background of life science which provides broader view that student can choose to have more electives to study in their interested areas. BCB is a research oriented major that focuses and specializes on research training. Students will be advised to take BCB if they want to pursue further study in life science. BIOT is a small major that focuses on the applied aspects of life science. The general background is similar to the foundation of BCB but focuses more on the application side in agriculture, herbal medicine, biomedicine, and health industry.

2. Is Biomolecular Chemistry Option under the department of chemistry related to Biochemistry and Cell Biology under the division of life science? What is the difference between them?

The Biomolecular Chemistry Option is more Chemistry oriented, whereas the BCB major emphasizes more on the Biological aspects. Accordingly students in the Biomolecular Chemistry Option will not need to take life science courses to graduate, whereas BCB students are required to take a significant number of courses in chemistry.

3. What is the difference between Mathematics (MATH) and Mathematics & Economics (MAEC)?

MATH concentrates mainly on mathematics and it has six different tracks to fit students' interests, whereas MAEC is jointly offered by Department of Mathematics and Department of Economics. This major includes both mathematics and economics; student will not be mainly focus on mathematics.

4. What are the business elements in MAEC? Do I need to have strong business background in order to take this major?

Students are not required to have economic or business background to take MAEC but this major requires students to take minimum 8 economic courses.

5. How difference is Pure Mathematics (Advanced) Track and Pure Mathematics Track? What kind of academic performance I need to obtain in order to take the advanced track?

The advance track requires four honor courses. It is designed for students who want to pursue further study after graduation. If students are interested in study in Advance Track, it is highly recommended to take Math1023 and Math1024 in their first year of study. There is no written academic performance requirement for the Advance Track but student needs to get approval from the program director in order to enroll in the Advance Track.

FAQs

6. What is option and track? What are the differences between them?

Options enable students to deepen their engagement with an area of the major discipline through completion of additional courses and other learning activities. Options in a major are optional. Students in the major can graduate without taking any option. Approved options are recorded on students' academic transcripts but not the graduation certificate.

Some majors, such as Mathematics, may include tracks to govern students' major requirements and choices of electives. Students in these majors MUST choose a track to focus on; such area of focus should also be recorded on students' transcripts but not the graduation certificate. (Please notice that we are still waiting CSU's approval to put track on transcript)

7. Can I change to other tracks or options if I find difficulties on the one I have chosen?

YES but students need to get approval from program directors or UG coordinators.

8. What are the differences between Environmental Science (ENVS) & Environmental Management and Technology (EVMT)?

ENVS focuses more on science and engineering. In order to know how the eco-system works and how it affects the ecology and the whole world, students are taught to have strong fundamental knowledge.

EVMT emphasizes more on the management and policy. Essential and fundamental knowledge on environmental science and technology will be covered in this major; students will be able to link up latest scientific and technological advances on environmental issues in relation to business operations and sustainability development, and apply environmental science on business management.

9. How to get into IPO? Is it hard to get in?

Student can apply IPO major and any major in School of Science at the same time. Faculties will not only consider student's CGA but also their presentation skill and their interest in the major. It depends on the overall academic performance of the student. There will be interview for shortlisted candidates.

10. Can I take double majors? How can I do that?

Yes, but you have to enroll in one major first. More information on declaring a second major will be provided later.

11. Can I do minor? What is the requirement?

Yes. Students should check the academic calendar for available minors and their requirements. Credits earned in fulfilling a minor requirements can be double-counted with other graduation requirements.

12. Can I change major after I have submitted the major declaration form?

After submission of major declaration form, changes is still acceptable as long as it is BEFORE the application deadline. Otherwise, student has to wait until the result is out and if they really want to change the major afterward, they will have to accept the offer and apply major transfer after the second round of major declaration.

Questions on Career

1. What is the career path and job opportunity of taking science major?

Please see Chapter of Career and Degree.

2. What are the perspectives after graduating from environmental science?

Since people are getting more concerned about the importance of environmental protection, environmental science is playing a more important role in both the society and the economy because it has aroused the public awareness. There are always pros and cons for environmental disturbance and economic growth. We need to take the balance between economic growths and minimize the environmental disturbance and loss at the same time. Therefore, ENVT and ENVS will have certain demand in the near future.

3. Is my job opportunity the same if I take different options under Chemistry?

The flexibility is quite large because studying chemistry could train student's analytical mind and thinking; as well as their generic skill could be applied to many jobs and positions in many fields. Different options under Chemistry can facilitate students to find job related to their corresponding options.

4. Is my job opportunity the same if I take different tracks under Mathematics?

Applied Mathematics Tracks – Work in the field of consultancy company, environmental science, observatory department, or any field that require calculation
Computer Science Track – System analyst or programmer
Mathematics and Physics Track – Analyst related to the physics field
Pure Mathematics Track and (Advance) Track – Research
Statistics and Financial Mathematics Track – Data Analyst

5. Is my job opportunity the same if I take different options under Physics?

Applied Physics Option – Jobs related to engineering or industry
Physics and Mathematics Option – Jobs like analysts because student will have more training on calculation
Pure Physics Option – Designed for students who want to have further study

FAQs

General Questions from Faculty Advisors

1. If the advisee comes to me who is not my assigned one, what should I do?

Advisor should learn about the reason why the student is not seeking advice from his/her assigned advisor. If it is about major or course related problem that the student wants to get professional advice from you, you should provide help if you are available. However, student will need their own advisor to approve the credit overload request and endorse the major declaration form for them; therefore, you should ask the student to talk to their own advisor after meeting with you. If the problem is not related to your profession or you think that the workload is too much for you, please refer the student to the Office of Academic Advising and Support. Student Advising Officer will provide further help for the student.

2. Where can I refer students for help?

Please see chapter of Useful Resources and Links.

3. How does a student transfer credits from other institutions?

Transfer of credits may be granted to students in recognition of studies completed elsewhere than HKUST at an appropriate level as recognized by the University. Transfer of credit can be of two types: course-credit transfer, where a transferred course is equivalent to a specific course in the HKUST course catalog, or credit-only transfer, where only credits are transferred. Transfer credits granted will not be included in the calculation of grade averages, unless prior arrangements have been made. Students wishing to transfer credits should contact their UG coordinator if they are already enrolled in a major. If not, they should contact any student advising officer.

4. 16 credits in one semester seem light compared to the 3Y curriculum. Why shouldn't we let student to take one more course?

Note that the credit requirement of the 4Y curriculum (120) is NOT proportionally increased from the 3Y curriculum (100). That means by design students are expected to take a light credit load so that they have more time to spend on co-curricular activities.

Useful Resources and Links

If students have questions of:

- Orientation Series
- Difficulties in adapting University Life

* *GO TO First Year Success: http://fys.ust.hk*

If students have questions of:

- 4Y curriculum
- Major requirement
- Major declaration
- MAGNET
- Making appointment with advisors

* *GO TO Office of Academic Advising and Support:*

Wedsite: http://advise.science.ust.hk/aa
Facebook: facebook.com/ssci.advise

Office Location: Room 1401-1403 (opposite to LTB)
Email: advise@ust.hk

If students have questions of:

- Counseling
- Career Advising
- Art and Culture
- Scholarship
- Sport Facilities
- Residential Hall
- HLTH 1010 Course
- Redbird
- Connect (Social Service)

* *GO TO Student Affairs Office:*
http://sao.ust.hk
Office Address: Room 5015 (Lift 3)
Email: sao@ust.hk

If students have questions of:

- Exchange
- Internship
- Social Service
- Communication Tutor
- Other co-curriculum activities

* *GO TO Science for Success:*
Wedsite: http://advise.science.ust.hk/sfs
Facebook: facebook.com/ssci.advise

Appendix I

List of Pre-Major Faculty Advisor

Prof Kenny K. CHUNG	Division of Life Science	bckchung@ust.hk
Prof Pingbo HUANG	Division of Life Science	bohuangp@ust.hk
Prof Robert KO	Division of Life Science	bcrko@ust.hk
Prof Hongbin LIU	Division of Life Science	liuhb@ust.hk
Prof Robert Z. QI	Division of Life Science	qirz@ust.hk
Prof Wan Simon CHAN	Department of Chemistry	chanwan@ust.hk
Prof Guocheng JIA	Department of Chemistry	chjiag@ust.hk
Prof Lam Lung YEUNG	Department of Chemistry	chyeungl@ust.hk
Dr Wing Lung LEE	Department of Mathematics	malung@ust.hk
Prof Shing Yu LEUNG	Department of Mathematics	masyleung@ust.hk
Prof Shi Qing LING	Department of Mathematics	maling@ust.hk
Prof Min YAN	Department of Mathematics	mamyan@ust.hk
Dr Chi Wai YU	Department of Mathematics	macwyu@ust.hk
Prof Tien Wen CHEN	Department of Physics	twchen@ust.hk
Prof Vic LAW	Department of Physics	phlaw@ust.hk
Prof Wing Yim TAM	Department of Physics	phtam@ust.hk
Prof Kam Sing WONG	Department of Physics	phkswong@ust.hk

ENVS Major

Prof Hongbin Liu	LIFS/faculty advisor	liuhb@ust.hk
Dr. Ice Ko	LIFS/faculty advisor	iceko@ust.hk

Faculty advisors of IPO Programs

Dual Degree Program in Technology and Management
Faculty Advisor: Prof CD Shum (email: jointm@ust.hk)

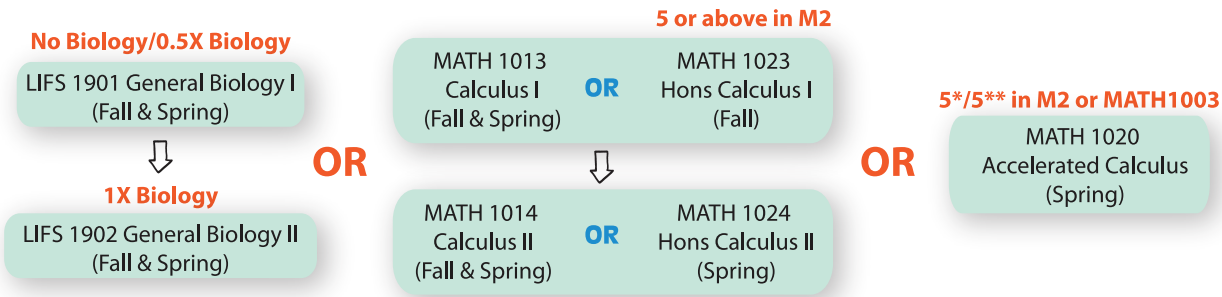
Risk Management and Business Intelligence Program (RMBI)
Faculty Advisor: Dr. Adela Lau (email: joinrmbi@ust.hk)

Environmental Management and Technology Program (EVMT)
Faculty Advisor: Dr. Michelle Lin (email: joinevmt@ust.hk)

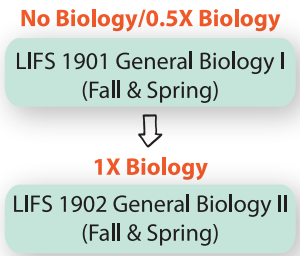
Appendix II

Major Pre-requisites Pathways

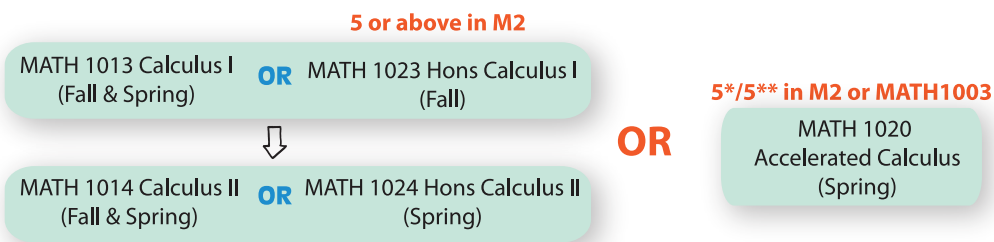
Environmental Science



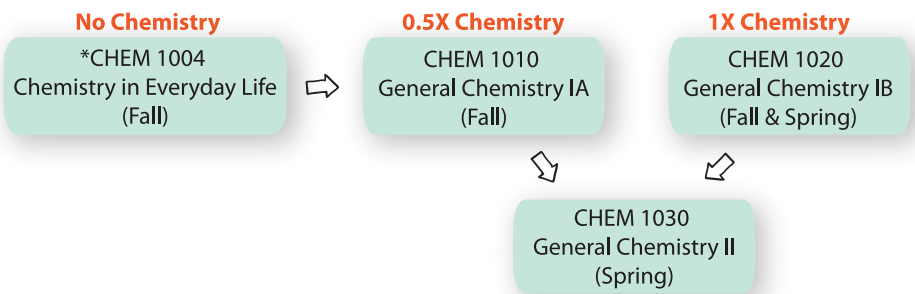
Biochemistry and Cell Biology
Biological Science
Biotechnology



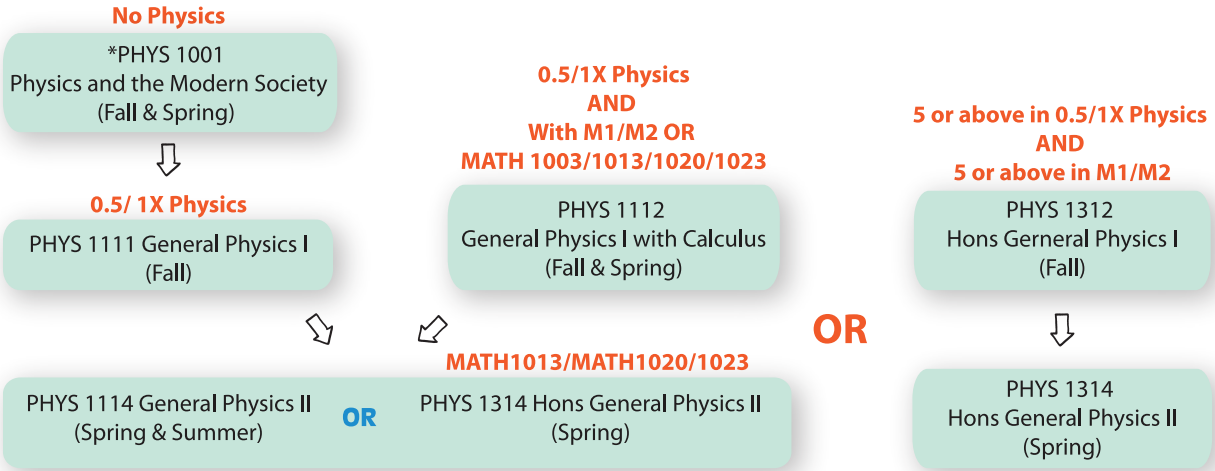
Mathematics
Mathematics and Economics



Chemistry



Physics

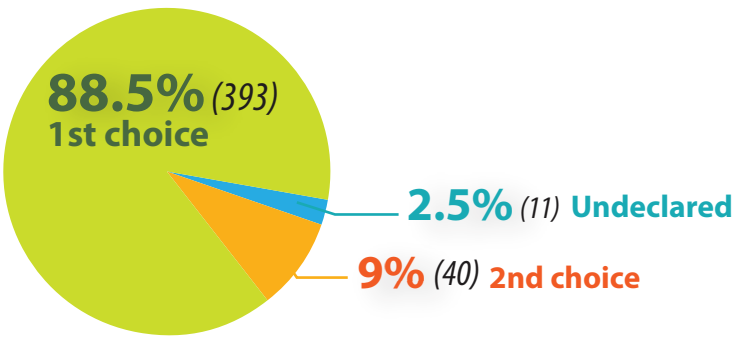


* These courses are NOT Major Pre-requisite courses.

Appendix III

1st Round Major Declaration Result 2012/13:

% of Students* Entering Science Majors *(Actual no. of Students)*



**Students who chose IPO as their 1st choice and those who did not join the first round are not included here*

Total number, CGA Mean and StDev of the students getting into each science major

**** Please do not disclose the following data to the new students as program quota as well as the CGA may change from year to year. It is for your reference only.

Program	No. of students	CGA Mean	StDev
BCB	49	3.108	0.351
BISC	59	2.417	0.487
BIOT	21	2.662	0.469
CHEM	92	2.872	0.358
PHYS	57	2.92	0.554
MATH	103	2.681	0.534
MAEC	30	3.312	0.356
ENVS	47	2.66	0.342

Appendix IV

Below is a table of minimum CGA requirement and quota, if any, of options and tracks. We need not publish it, but we should advise and answer students accordingly.

		CGA requirement (yes/no)	Quota (yes/no)
CHEM	Biomolecular Chemistry Option	No	No
	Environmental and Analytical Chemistry Option	No	No
	Material Chemistry Option	No	No
	Pure Chemistry Option	No	No
PHYS	Applied Physics Option	No	No
	Physics and Mathematics Option	yes	No
	Honors Physics Option	yes	No
MATH	Applied Mathematics Track	No	yes
	Computer Science Track	No	yes
	Mathematics and Physics Track	yes	yes
	Pure Mathematics (Advanced) Track	yes	yes
	Pure Mathematics Track	No	yes
	Statistics and Financial Mathematics Track	No	yes

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Office address:
Room 1401-1403 (Lift 25/26)
Academic Building, HKUST
Website: http://advise.science.ust.hk
Tel: 2358 6086
Email: advise@ust.hk