FIRST TRAINING SESSION FOR PRE-MAJOR FACULTY ADVISORS

1. ROLES AND RESPONSIBILITIES
2. ADVISING TIMELINE AND TASKS
3. 4-YEAR CURRICULA

Office of Academic Advising and Support, School of Science, Jun 4, 2012

ROLES AND RESPONSIBILITIES OF PRE-MAJOR FACULTY ADVISORS

Our Academic Advising Model

Student-based two-phase model

Phase 1 – Pre-Major Advising

When to declare a major?
When should I go to exchange?
What other activities can help me succeed?

I'm interested in Math and Phys.
Which one should I choose?
Can I handle it?

Student Advising Officer

Pre-major Faculty Advisor

Peer Mentor

How's the workload here?
Any study tips?
Any interesting clubs here?

Phase 2 – Advising After Declaring a Major

UG Coordinator

Faculty Mentor

Academic Program Advisor

Now I’m a Math student! Yeah!

PRE-MAJOR FACULTY ADVISORS

Majors	Name
Life Science	Prof Kenny K. CHUNG
	Prof Pingbo HUANG
	Prof Robert KO
	Prof Hongbin LIU
	Prof Robert Z. QI
Chemistry	Prof Wan Simon CHAN
	Prof Guocheng JIA
	Prof Lam Lung YEUNG
Mathematics	Dr Wing Lung LEE
	Prof Shing Yu LEUNG
	Prof Shi Qing LING
	Prof Min YAN
	Dr Chi Wai YU
Physics	Prof Tian Wen CHEN
	Prof Vic LAW
	Prof Wing Yim TAM
	Prof Kam Sing WONG
Environmental Science	Prof Stanley LAU
	Prof Hongbin LIU
	Dr Ice KO

WHAT DO WE DO?

DON'T	Just give factual information. Just promote your own major programs.
DO	Inspire students and help them develop and achieve their goals.

In particular, we are here to:

- Provide support to Student Advising Officers on matters related to academic programs and courses.
- Meet with Student Advising Officers to discuss and review any concern arises during advising
- Be the first contact point between the Advising Office and departments/divisions

- ❑ Run inductions on major programs for new students.
- ❑ Provide consultation on major programs and year one science courses.
- ❑ Oversee students' academic performance.
- ❑ Be the academic advisors of students admitted directly to programs.

ADVISING TIMELINE AND TASK

PRE-REGISTRATION ARRANGEMENT

- **New students will be assigned to Pre-major Faculty Advisors at random, irrespective of their indicated interest.**
- **Advisor's name will appear in students' SIS.**

School quota for local students (including IPO)	460
School quota for non-local students	79
Students per Pre-major Faculty Advisors	~27

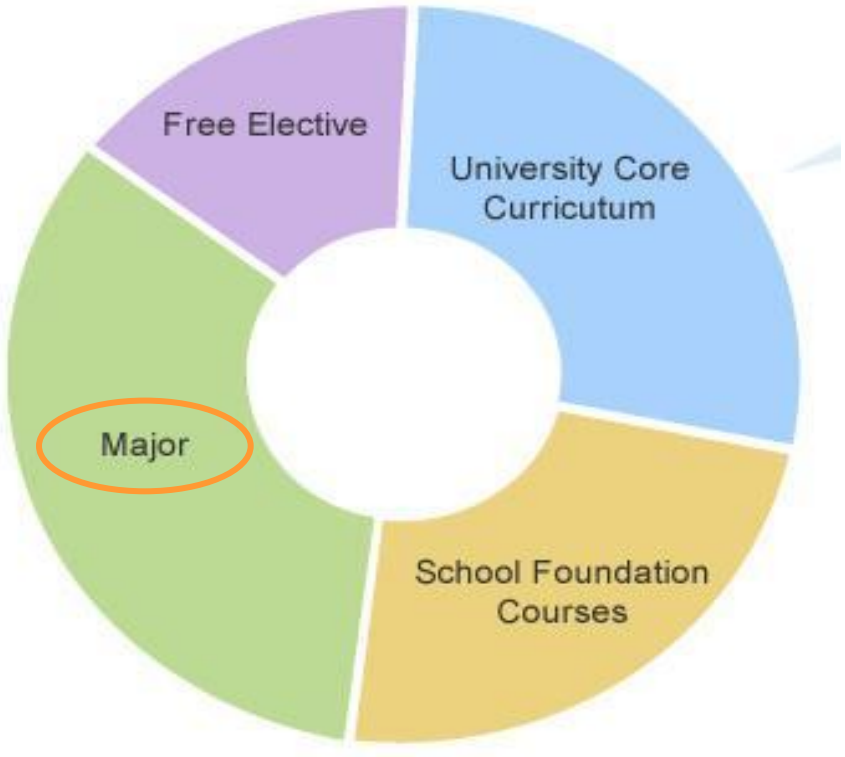
IMPORTANT DATES AND EVENTS

20 Aug	Registration day	Faculty Advising Session • Present major programs, including major pre-requisites, program requirement and career prospect • Explain school foundation courses
22 Aug	School Induction	Help students to choose Science Foundation Courses
5-28 Sept	Add/drop period	2 hrs per week for individual consultation by appointment
Term time		1 hr per week for individual consultation by appointment

4-YR CURRICULUM

UNIVERSITY GRADUATION REQUIREMENTS

- **at least 120 credits**
- **complete the requirement of:**



MAJORS - SSCI

Department	Program
Division of Life Science	BSc in Biochemistry and Cell Biology (BCB) BSc in Biological Science (BISC) BSc in Biotechnology (BIOT)
Department of Chemistry	BSc in Chemistry (CHEM) *Options offered: Biomolecular Chemistry, Environmental and Analytical, Material Chemistry, Pure Chemistry*
Department of Mathematics	BSc in Mathematics (MATH) *Tracks offered: Applied Mathematics, Computer Science, Mathematics and Physics, Pure Mathematics (Advanced), Pure Mathematics, Statistics and Financial Mathematics* BSc in Mathematics and Economics (MAEC)
Department of Physics	BSc in Physics (PHYS) *Options offered: Applied Physics, Physics and Mathematics, Pure Physics*
School of Science	BSc in Environmental Science (ENVS)

MAJORS – INTERDISCIPLINARY PROGRAMS OFFICE (IPO)

BSc in Environmental Management and Technology (EVMT)

BSc in Risk Management and Business Intelligence (RMBI)


8
SSCI
Majors
2 IPO
Majors
10
Majors

HOW TO DECLARE MAJOR?

1st round: Spring term in the 1st year

2nd round: Fall term in the 2nd year

Maximum of 2 choices

Selection criteria:

- ✓ **Major pre-requisites requirements**
- ✓ **Academic performance (i.e. CGA) at HKUST**
- ✓ **Interviews and other means of evaluation if necessary**

PROCEDURES

Fulfill major pre-requisites requirements

Submit Major Declaration Form by **30 Apr 2013**

Attend interview if needed

Results release in **mid-June 2013**

No offer

Accept offer

2nd round in Fall 2013

MAJOR PRE-REQUISITES REQUIREMENTS

Intended major	Course code	Course title	Unit
MATH / MAEC / ENVS / EVMT / RMBI	MATH1013	Calculus I	3
BCB / BIOT / BISC	LIFS1901	General Biology I	3
	LIFS1902	General Biology II	3
CHEM	CHEM1010	General Chemistry IA	3
	CHEM1020	General Chemistry IB	2
	CHEM1030	General Chemistry II	3
PHYS	PHYS1111	General Physics I	3
	PHYS1112	General Physics I with Calculus	3
	PHYS1114	General Physics II	3

For an update UG course catalog see
http://www.ust.hk/provost/courseprogram/interim/ugcourse/index.html

MAJOR REQUIREMENTS

Take MATH as sample:

School of Science

Major Requirements

BSc in Mathematics

			Course Credit
Students MUST take the following courses prior to enrollment into the major			
Major Pre-requisite courses			
		Note: [(MATH 1013 OR MATH 1023) AND (MATH 1014 OR MATH 1024)] OR [MATH 1020]	4-6
MATH	1013	Calculus I	3
MATH	1014	Calculus II	3
MATH	1020	Accelerated Calculus	4
MATH	1023	Honors Calculus I	3
MATH	1024	Honors Calculus II	3
Required Courses			
MATH	2023	Multivariable Calculus	4
		Note: MATH 2033 OR MATH 2043 [Students following Pure Mathematics (Advanced) Track can only use MATH 2043 to fulfill the requirement.]	4
MATH	2033	Mathematical Analysis	4
MATH	2043	Honors Mathematical Analysis	4
		Note: MATH 2121 OR MATH 2131 [Students following Pure Mathematics (Advanced) Track can only use MATH 2131 to fulfill the requirement.]	4
MATH	2121	Linear Algebra	4
MATH	2131	Honors in Linear and Abstract Algebra I	4
		Note: MATH 3033 OR MATH 3043 [Students following Pure Mathematics (Advanced) Track can only use MATH 3043 to fulfill the requirement.]	4
MATH	3033	Real Analysis	4
MATH	3043	Honors Real Analysis	4
MATH	4999	Capstone Project	3
		Note: COMP 1021 OR COMP 1022P OR COMP 1022Q	3

For an update UG program catalog see
http://www.ust.hk/provost/courseprogram/interim/ugprog/index.html

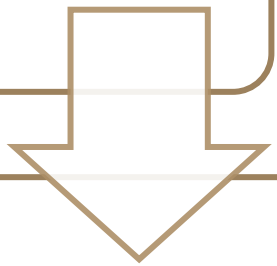
MAJOR IN MATH, MAEC, ENVS, EVMT, RMBI…

MATH1013 Calculus I

(Pre-registered for all new students)

MATH1023 Honors Calculus I

(Challenging, can add in add/drop period)



MATH1014 Calculus II

MATH1024 Honors Calculus II

(Pre-requisites: MATH1023)

MAJOR IN BCB, BIOT, BISC…

LIFS1901 General Biology I
(DSE: 0 X Biology, 0.5 X Biology)

LIFS1902 General Biology II
(DSE: 1 X Biology)

Will not be offered in Fall 12

Benchmark: **Grade 3** in DSE

MAJOR IN CHEM…

CHEM1004 Chemistry in Everyday Life
(DSE: 0 X CHEM)

CHEM1010 General Chemistry IA
(DSE: 0.5 X CHEM)
CHEM1020 General Chemistry IB
(DSE: 1 X CHEM)

CHEM 1030 General Chemistry II

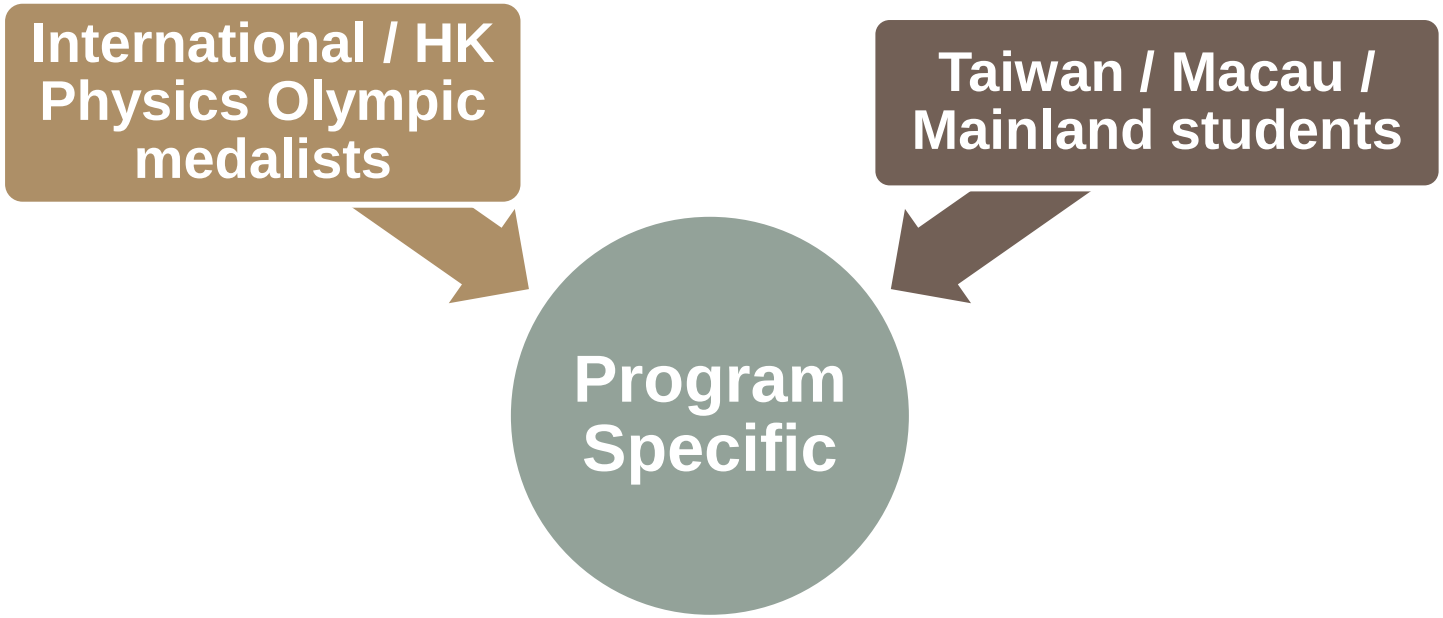
MAJOR IN PHYSICS…

PHYS1001 Physics and the Modern Society
(DSE: 0 X Physics)

PHYS1111 General Physics I
PHYS1112 General Physics I with Calculus
(DSE: 0.5 X Physics, 1 X Physics)

PHYS1114 General Physics II

SPECIAL ADMISSION CASES



SPECIAL ADMISSION CASES

High achiever in HKDSE

- 6 subjects at Level 5 or above
- with an average of Level 5*

Free choice of Major

For Science students only, not include IPO

SCHOOL FOUNDATION COURSES

IT Course (1 course from below)

COMP1001 Exploring Multimedia and Internet Computing

COMP1021 Introduction to Computer Science

COMP1022P Introduction to Computing with Java

COMP 1022Q Introduction to Computing with Excel VBA

English Language Course

LANG2010 English for Science I

SCHOOL FOUNDATION COURSES

Science Foundation Courses (8 Courses)

- **7 Foundation lecture courses**
  - at least 1 course from each area in LIFS, CHEM, MATH and PHYS; but no more than three courses from any one subject area; and

- **at least 1 laboratory course** from any one area

FOUNDATION LECTURE COURSES

CHEM 1004 Chemistry in Everyday Life
CHEM 1010 General Chemistry IA
CHEM 1020 General Chemistry IB
CHEM 1030 General Chemistry II

PHYS 1001 Physics and the Modern Society
PHYS 1111 General Physics I
PHYS 1112 General Physics I with Calculus
PHYS 1114 General Physics II
PHYS 1151 Intermediate General Physics I
PHYS 1152 Intermediate General Physics I with Calculus
PHYS 1154 Intermediate General Physics II

LIFS 1901 General Biology I
LIFS 1902 General Biology II

MATH 1003 Calculus and Linear Algebra
MATH 1013 Calculus I
MATH 1014 Calculus II
MATH 1020 Accelerated Calculus
MATH 1023 Honors Calculus I
MATH 1024 Honors Calculus II
MATH 2023 Multivariable Calculus
MATH 2121 Linear Algebra

LABORATORY COURSES

LIFS 1903 Laboratory for General Biology I
LIFS 1904 Laboratory for General Biology II

CHEM 1050 Laboratory for General Chemistry I
CHEM 1055 Laboratory for General Chemistry II

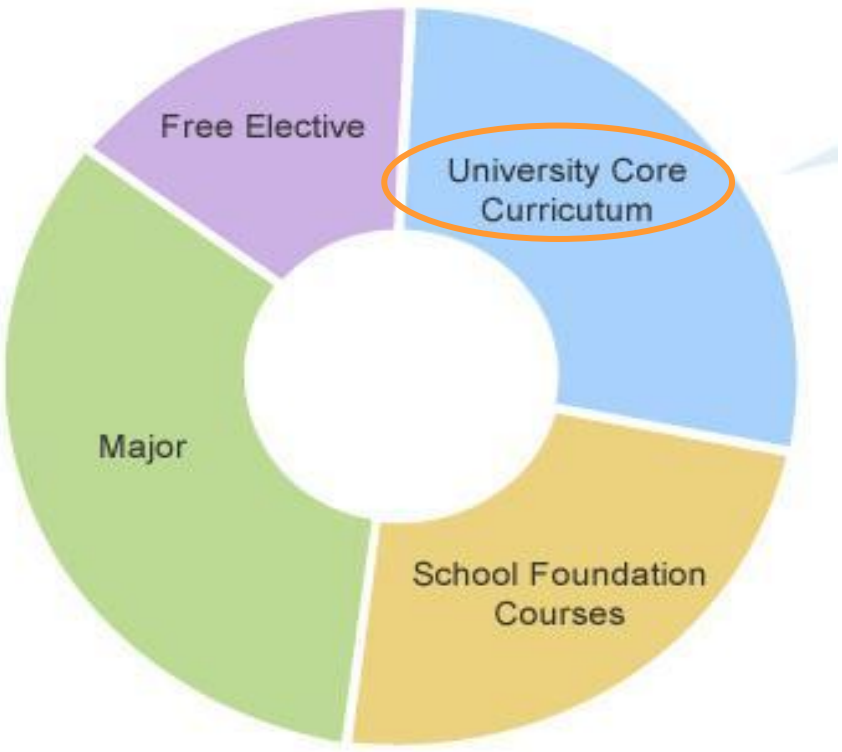
PHYS 1113 Laboratory for General Physics I
PHYS 1115 Laboratory for General Physics II

EXAMPLE

Subject Area	Course
LIFS	General Biology I
CHEM	General Chemistry IA Chemistry II
MATH (Major)	Calculus I Calculus II Multivariable Calculus Linear Algebra
PHYS	General Physics I

Major requirement:
Linear Algebra

7 Foundation Lecture Courses



Reference: http://uce.ust.hk/course_information/index.html

COMMON CORE COURSES

Common Core Area	Credits
Humanities (H)	6*
Social Analysis (SA)	6*
Science and Technology (S&T)	6*
Quantitative Reasoning (QR)	3
English Communication	6 **
Chinese Communication	3
Healthy Lifestyle	Non-credit
Core Electives	6 ***
Total credits required	**36** Double-count with other requirements for up to 6 credits only

* At least 3 credits must be taken from school-sponsored courses listed for the respective common core area

** Must be taken in the first year of study

*** To be selected from S&T, SA, H, QR, or Arts common core courses


Free Elective
University Core Curricutum
Major
School Foundation Courses