

1. Advantages of Broad-Based Admission and the SLS Curriculums

- To allow flexibility to students upon admission
- To explore your interests before selecting a major programme
- To gain a broader foundation in Life Sciences disciplines

Six Programs of SLS are individual programs, but they are also closely linked together!!

- Biochemistry
- Biology (incl. Human Biology)
- Cell & Molecular Biology
- Environmental Science
- Food & Nutritional Sciences
- O Molecular Biotechnology



Desired Learning Outcomes:

Our graduates will acquire a sense of professionalism and the capability of working independently with good communication, analytical, research and technical skills.

Can adapt to the changing social and research environments in order to stay competitive in further studies and in the job market.



Learning Experience under Broad-Based Admission

- To take a set of common fundamental courses in year 1/3 or faculty package in year 1/4.
- To declare a major program after 1 year of study.
- To acquire strong academic counseling from orientation to graduation (may even declare potential major at term start).
- To prepare career life in sciences, health and related fields, as well as in further postgraduate studies.
- No quota is set for each of the life science programmes

Overview:

From Broad-based admission to Declaring your: Selection of courses in year 1 of our 3 year curriculum or year 2 of our 4 year curriculum



Build up fundamental knowledge

Take foundation courses in life science

BCHE2030 + BIOL2120+ LSCI2000 + LSCI2002

Foundation

Term 2

Confirm your interest

Select preferred courses from a list of 10 offered by all 6 programs

BCHE2000 BIOL2210 BIOL2213 BIOL2310 BIOL2313 CMBI2101 CMBI2200 ENSC2270 FNSC2003 MBTE2000

Declare preferred Major

Exploration

Term 3

Term 4

Term 5

Term 6

Foster to be a specialist

Engage in the advanced and specialized study posed by your Major program





Example of course selection: Most likely BCHE, maybe CMBI or FNSC

Course code	Unit	BCHE	BIOL	CMBI	ENSC	FNSC	MBTE
BCHE2000	2	1					10
BIOL2210	3				$\sqrt{}$		
BIOL2213	1		\sqrt{a}		$\sqrt{}$		
BIOL2310	3	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$
BIOL2313	1	$\sqrt{}$	\sqrt{a}	$\sqrt{}$			$\sqrt{}$
CMBI2101	2			$\sqrt{}$			$\sqrt{}$
CMBI2200	2			$\sqrt{}$			
ENSC2270	3				$\sqrt{}$		
FNSC2003	2					$\sqrt{}$	
MBTE2000	2						√

Second Term

BIOL2210 Ecology (3)

BIOL2213 Ecology Lab (1)

CMB12200 Literature Survey in CMB &

Scientific Communication (2)

CMBI2101 Biology of Model Organisms for

CMB Research (2)

ENSC2270 Introduction to Environmental Science (3)

FNSC2003 Food, Nutrition and Health (2)

MBTE2000 Introduction to Molecular Biotechnology (2)

6 Units + 4 Units + 2 Units = 12 Units

Students are advised to take 9-12 units to opt for 2-3 majors

Student Learning Needs

8/20/2012

- The school is also aware of the needs of graduates not working in the field of life sciences.
- *Generic skills* of communication, language abilities, creativity, leadership, life-long learning, etc, are also important "transferable skills".



Curriculum Design

at least 99 units to graduate (JA4757)

General Education (15 units)

Major Course (61-66 units)

Physical Education (2 units)

Year 1
Core
Courses

(11-17 units)

Year 2
Core
Courses

(~15 -20 units)

Year 3
Core
Courses

(~6-8 units)

Major Elective Courses (≥23 units)

Other Courses

(at least
19 - 21 units)
Minor
Programmes, e.g.
Education,
Geography,
Japanese,
Public Health,
Translation,
Integrated BBA,
etc.

OUR 4 YEAR CURRICULUM (JS4601) ~62 - 68 major units out of 123 (4-year curriculum)

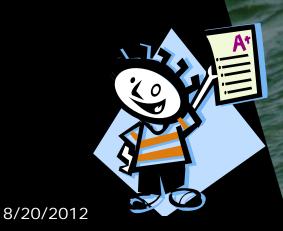
YEAR ONE (9 units) IN 4-YEAR CURRICULUM:

BIO 1002 Introduction to Biological Sciences

CHM 1280 Introduction to Organic Chemistry and

Biomolecules

Any one from MAT 1320, PHY 1001, PHY 1002, STA 1012 Other university GE, PE, language courses



Year 1/3 or 2/4 - 1st term Curriculum: Same for all six programs of LSCI students

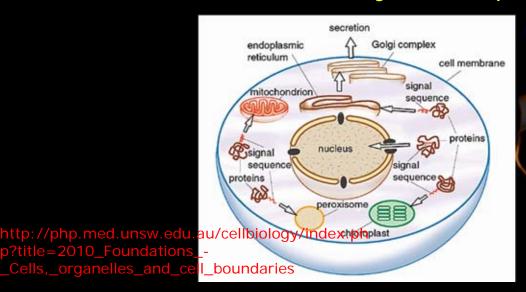
First Term

BCHE2030 Fundamentals of Biochemistry (3 units)

BIOL2120 Cell Biology (3 units)

LSCI2000 Research & Communication Skills in Life Sciences (1 unit)

LSCI2002 Basic Laboratory Techniques in Life Sciences (2 units)

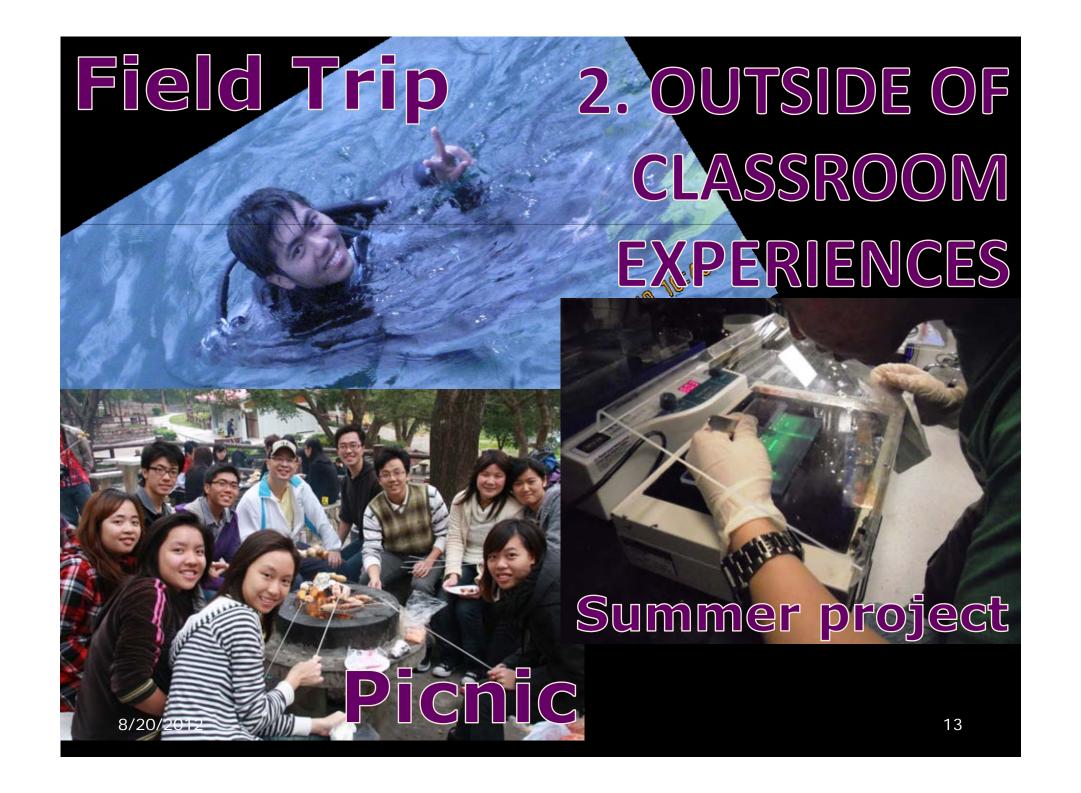


http://www.google.com/i mgres?imgurl=http://uplo ad.wikimedia.org/wikipedi a/commons/thumb/6/60/ Myoglobin.png

Year 1/3 or 2/4 - 2nd term Curriculum: Programme specific requirements

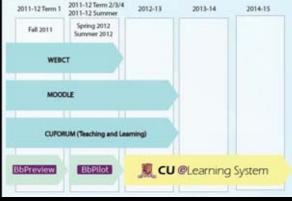
Course code	Unit(s)	BCHE	BIOL	CMBI	ENSC	FNSC	MBTE
BCHE2000	2	\checkmark					
BIOL2210	3		$\sqrt{}$		$\sqrt{}$		
BIOL2213	1		$^{\#}$		\checkmark		
BIOL2310	3	\checkmark	V	√			V
BIOL2313	1	\checkmark	$^{\#}$	√			√
CMBI2101	2			√			$\sqrt{}$
CMBI2200	2						
ENSC2270	3						
FNSC2003	2						
MBTE2000	2						

choose only ONE laboratory course from BIOL2213, BIOL2313 or BIOL3413 (offered in the second year) for the BIOL major requirement.





https://moodle.cuhk.e
du.hk/login/index.php



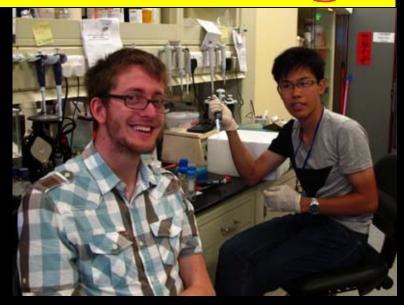
http://www.cuhk.edu.hk/eLearning/c_systems/elearn/implementation_s.html





Information # knowledge

Learning how to learn



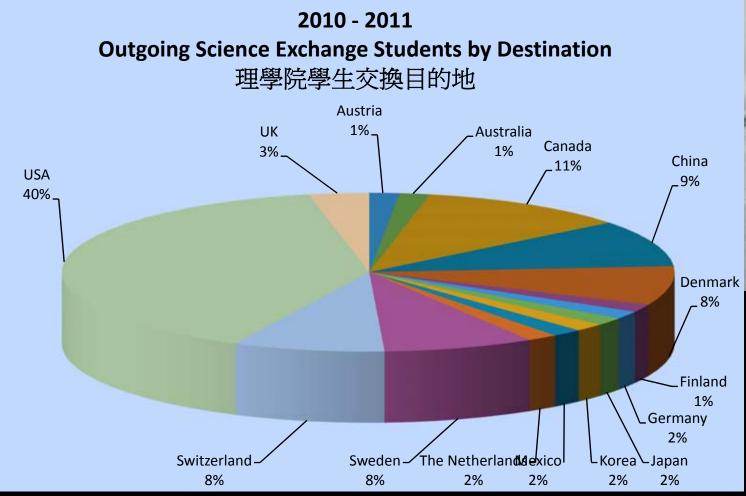
Life sciences are experimental sciences

Extracurricular Activities organized by the school and programmes

- The Young Scientist Mentorship And Research Training (SMART)
 Programme specifically offers a distinguished research experience to first year students. You may also receive up to \$5000 as rewards for working in the research laboratory
- **DREAM** (Dedicated Research Exchange and Mentorship): participation in research work in foreign laboratories (e.g. Canada, UK, USA).
- Summer Internship: participation in summer jobs in R and D team of local biotechnology firms (e.g. HK DNA Chips, CK Life, etc).
 Ocean Park Foundation funds of summer experiences.
- Summer research program: participation in research work in any laboratories.
- Career development workshops: annual event allows alumni to talk about the trend of job market and their paths of success in career developments.
- Exchange Programmes (organized by Faculty, College, or _{8/20}/ປູກຸ່ງversity)

EXCHANGE PROGRAMS

http://www.cuhk.edu.hk/sci/ssep/programme.html http://www.cuhk.edu.hk/oal/





Q &₁₈A







