

*~ Welcome to the Faculty of Science ~*

**Academic Counselling for  
New Undergraduate Students  
(4-year Curriculum)**

**23 August 2012**



# Faculty of Science

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## Academic Counselling for New Undergraduate Students (4-year Curriculum)

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# Today's Orientation Schedule



- Introduction to *SCIENCE*
- Q & A Session
- Briefing by Each Major Programme
- Q & A Session

# Content



- Faculty of Science
- University Requirements
- Faculty Package Requirements
- Major Programme Requirements
- Course Combinations/Patterns
- Major Declaration
- Timeline of major events
- Q & A

# Faculty of Science



Two Schools



Life Sciences  
生命科學學院



Chinese  
Medicine  
中醫學院



Four Departments



Chemistry  
化學系



Mathematics  
數學系



Physics  
物理系



Statistics  
統計系





# Faculty of Science



## Broad-based admission (*SCIENCE*)

- Biochemistry
- Biology
- Cell and Molecular Biology
- Chemistry
- Earth System Science (*NEW*)
- Environmental Science
- Food and Nutritional Sciences
- Mathematics
- Molecular Biotechnology
- Physics
- Statistics



## Individual programme-based admission:

- Chinese Medicine
- Enrichment Mathematics
- Mathematics & Information Engineering  
(admit via Enrichment Mathematics)
- Quantitative Finance and Risk Management Science
- Risk Management Science

# Faculty of Science



- Over 2,800 students in Science Faculty and ¼ of them are postgraduates in 2012/13

	03/2012 (UG)	2011-12 (admitted)	2012-13 (3-year) (expected)	2012-13 (4-year) (expected)
Biochemistry	110	/	/	} 433
Biology	84	1	/	
Cell and Molecular Biology	21	/	/	
Environmental Science	51	/	/	
Food and Nutritional Sciences	158	/	/	
Molecular Biotechnology	33	/	/	
Life Sciences	223	215	202	
Chemistry	204	68	63	} 25
Earth System Science	N/A	N/A	N/A	
Mathematics	193	51	55	
Physics	202	60	67	
Statistics	159	43	48	
Chinese Medicine	131	26	25	} 27
Mathematics & Information Engineering	54	11	27	
Enrichment Mathematics	/	/	/	} 27
Risk Management Science	132	20	26	
Quantitative Finance and Risk Management Science	73	25	30	
	<b>1828</b>	<b>520</b>	<b>531</b>	<b>532</b>

# University Requirements



Component	Unit (s)	Y1-T1	Y1-T2	Y2	Y3	Y4
<b>Chinese</b>	<b>6</b>		3	3		
<b>English</b>	<b>9</b>	4		3	2	
<b>IT</b>	<b>1</b>		1			
<b>General Education</b>	<b>21</b>					
College	(6)	3			3	
Foundation	(6)		3	3		
Others (3-4 courses)	(9)			3	6	
<b>Physical Education</b>	<b>2</b>	any time				
<b>Subtotal</b>	<b>39</b>	<b>14-16</b>		<b>23-25</b>		
<b>Major (inclusive of Faculty Package)</b>	<b>51 – 72</b>					
Faculty Package	(9)	6-9		0-3		
Others	(42 – 63)	3 – 6		the rest		
<b>Free electives</b>	<b>12 – 33</b>	any time				
<b>Total</b>	<b>123</b>	<b>32 – 36</b>		<b>87 – 91</b>		



# Faculty Package Requirements



## Courses:

	Physics	Chemistry	Life-Sciences	Mathematics	Statistics
Course 1	PHYS1111	CHEM1070	LSCI1002	MATH1010	STAT1011
Course 2	PHYS1001	CHEM1280	LSCI1001	MATH1030	STAT1012
Course 3	PHYS1002		LSCI1000	MATH1520	

## Students' choices:

	Student 1	Student 2	Student 3	Student 4	Student 5
At least					
3 courses from					
3 different groups					

## Programme requirements:

	Physics	Chemistry	Life Sciences	Mathematics	Statistics	ESSC
1st course (the subject group)	PHYS1111	CHEM1070	LSCI1002	MATH1010 MATH1030	STAT1011 STAT1012	1st course PHYS1111 CHEM1070
2nd course (the most relevant subject group)	MATH1010	MATH1520 MATH1010	CHEM1280 CHEM1070	STAT1011	MATH1010 MATH1030 MATH1520	LSCI1002 MATH1010 STAT1011
3rd course (from remaining groups)	any other	any other	any other	any other	any other	2nd & 3rd any other

# Faculty Package Requirements



Course Code	Course Title	Units
Group A: Life Sciences		
<b>LSCI1000</b>	Biochemistry of Health and Disease	3
<b>LSCI1001</b>	Basic Concepts in Biological Sciences	3
<b>LSCI1002</b>	Introduction to Biological Sciences	3
Group B: Chemistry		
<b>CHEM1070</b>	Principles of Modern Chemistry	3
<b>CHEM1280</b>	Introduction to Organic Chemistry and Biomolecules	3
Group C: Mathematics		
<b>MATH1010</b>	University Mathematics	3
<b>MATH1030</b>	Linear Algebra I	3
<b>MATH1520</b>	University Mathematics for Application	3
Group D: Physics		
<b>PHYS1001</b>	Essential Physics	3
<b>PHYS1002</b>	General Physics	3
<b>PHYS1111</b>	University Physics I – Introduction to Mechanics, Fluids and Waves	3
Group E: Statistics		
<b>STAT1011</b>	Introduction to Statistics	3
<b>STAT1012</b>	Statistics for Life Sciences	3

# Major Programme Requirements



Programme		Requirements	
(1)	Chemistry (CHEM)	i	CHEM1070
		ii	MATH1520 (Preferred) or MATH1010
		iii	Any from A, D, E
(2)	Earth System Science (ESSC)	i	CHEM1070, LSCI1002, MATH1010, PHYS1111 or STAT1011
		ii+iii	2 courses, one each from any two groups (A-E), both of which are not from the same group as the 1 <sup>st</sup> course
(3)	Biochemistry (BCHE)	i	LSCI1002
(4)	Biology (BIOL)	ii	CHEM1280 (preferred) or CHEM1070
(5)	Cell and Molecular Biology (CMBI)	iii	Any from C, D, E
(6)	Environmental Science (ENSC)		C: MATH1520 (preferred) or MATH 1010
(7)	Food and Nutritional Sciences (FNSC)		D: PHYS1001 (preferred), PHYS1002 (preferred) or PHYS1111
(8)	Molecular Biotechnology (MBTE)		E: STAT1012 (preferred) or STAT1011
(9)	Mathematics (MATH)	i	MATH1010 or MATH1030
		ii	STAT1011
		iii	Any from A, B, D
(10)	Physics (PHYS)	i	PHYS1111
		ii	MATH1010
		iii	Any from A, B, E
(11)	Statistics (STAT)	i	Any from E
		ii	Any from C
		iii	Any from A, B, D

A: Life Sciences B: Chemistry C: Mathematics D: Physics E: Statistics

# Course Combinations/Patterns



Pattern	Courses	Foundation majors fulfilled	
A	CHEM1070 MATH1010 PHYS1111  LSCI1002	Chemistry Earth System Science Physics	Biochemistry Biology Cell and Molecular Biology Environmental Science Food and Nutritional Sciences Molecular Biotechnology
B	MATH1010 STAT1011 PHYS1111  CHEM1070	Earth System Science Mathematics Physics Statistics	Chemistry

# Course Combinations/Patterns



Pattern	Courses	Foundation majors fulfilled
C	CHEM1070 LSCI1002 MATH1520 or MATH1010  STAT1011	Chemistry Earth System Science Biochemistry Biology Cell and Molecular Biology Environmental Science Food and Nutritional Sciences Molecular Biotechnology

# Major Declaration



- Can declare major at any of the 3 time points
- Admission is guaranteed

Time Point	Guaranteed Scheme
(1) Entry	Obtained Level 5 in a specific HKDSE subject (~Grade C of HKALE) or Science Stream Students with Entry Scholarship
(2) End of Year 1	Obtained C+ in ONE specific major course
(3) End of Year 2	TAKEN (NOT necessarily ALL PASSED) a specific set of courses



# Major Declaration



Major	Entry (Level 5 or above)	End of Year 1 (C+ or above)	End of Year 2 (Taken, NOT necessarily ALL PASSED)
<b>BCHE</b>	Biology or	LSCI1002	LSCI1002, LSCI2002, BCHE2030, and BIOL2120
<b>BIOL</b>	Chemistry or		
<b>CMBI</b>	Combined Science (with Chemistry or Biology		
<b>ENSC</b>	Component)* or		
<b>FNSC</b>	Integrated Science or		
<b>MBTE</b>	Technology and Living (Food Science and Technology Strand only) (applies to FNSC only)		
<b>CHEM</b>	Chemistry or Combined Science (with Chemistry Component)*	CHEM1070	1. CHEM1070, and 2. Any ONE Laboratory course from CHEM1870 / CHEM2850 / CHEM2820 / CHEM2830 / CHEM2408, and 3. Any TWO Lecture courses with course code CHEM2XXX
<b>ESSC</b>	Biology or Chemistry or Physics or Combined Science	CHEM1070 or LSCI1002 or MATH1010 or PHYS1111 or STAT1011	1. ESSC2010, ESSC2020, and 2. Any ONE course from CHEM1070 / LSCI1002 / MATH1010 / PHYS1111 / STAT1011
<b>MATH</b>	Mathematics (Module 1) or Mathematics (Module 2)	MATH1010 or MATH1030	MATH1010, MATH1030, MATH2010, MATH2020, and MATH2040
<b>PHYS</b>	Physics or Combined Science (with Physics Component)*	PHYS1111	PHYS1111, PHYS1122, PHYS1712, and PHYS2041
<b>STAT</b>	Mathematics or Mathematics (Module 1) or Mathematics (Module 2)	STAT1011 or STAT1012	1. STAT 2001, STAT 2006, and 2. Any ONE course from STAT 1011 / STAT 1012, and 3. Any ONE course from MATH 1010 / MATH 1030 / MATH 1520

*\*Both the specified component and the average scores of Combined Science have to be Level 5 or above*

# Characteristics of the Scheme



- Student-oriented
  - Admission is guaranteed
  - Address the needs of a wider mix of students/applicants
- Highest priority: on students
  - Interest
  - Ability
  - Minimize labeling effect on less able students
- Clear roadmap for students
- Achievable targets to motivate students
  - Strong spirit of (automated) academic advising

# The Characteristics in Chinese



學生為本

興趣主導

能力配合

多階段

保證取錄

主修分流法

# Timeline



Aug 23-27	<u>Student Registration and First Year Student Survey</u>
Aug 23 (23:59)	<u>Application Deadline for the Faculty Orientation Camp</u>
Aug 27-29	<u>Science Orientation Camp</u>
Sep 3	<u>Course Selection - 1st Term</u> (via CUSIS from 10:00-22:00)
Sep 3	<u>CU Link Card Day</u> (SRRSH foyer from 15:30-16:30)
Sep 10	<u>Inauguration Ceremony</u> (from 10:30-1:15)
Sep 10-14	<u>Declaration of Potential Major</u> (from 09:00 Sep 10 – 23:59 Sep 16) (Academic advisor will be assigned based on your potential major)
Sep 17-23	<u>Add/Drop Period</u> (from 20:30 Sep 17 – 20:30 Sep 23)
Oct 5	Check Finalized Timetable
Oct 15-19	Declaration of Major (1 <sup>st</sup> time point) (wait for RES announcement)
Oct (end)	Confirmation of Major Declaration
Nov 29-30	Course Selection – 2nd Term (via CUSIS from 20:30 Nov 29 – 20:30 Nov 30)
May 2013	Declaration of Major (2 <sup>nd</sup> time point) (wait for RES announcement)

# Students need to pay attention to



- Student Handbook
- General Regulations Governing Full-time Undergraduate Studies
  - Course Load
    - 9 – 18 units per term
    - max 6 units in summer term
    - max 39 units in an academic year
- Waiting List under CUSIS
  - Remove from the waiting list by 20:30 on Sep 23
- Academic Honesty
  - Plagiarism
  - Citation
  - VeriGuide
  - Disciplinary consequences
- Check your CUHK email frequently  
(or remember to set your forwarding address)

# To whom and where to get help



- Academic Advisors
- Learning Enhancement Officer (Mainland Students)
  - Ms Carmen Hon (BFC Room 102)
  - [carmenhon@cuhk.edu.hk](mailto:carmenhon@cuhk.edu.hk)
  - 3943 1527
- Science Faculty Office
  - <http://www.cuhk.edu.hk/sci>
  - [sfo@cuhk.edu.hk](mailto:sfo@cuhk.edu.hk)
  - 3943 6327
  - Science Centre Room G30
- Orientation for New Student
  - <http://www.osa.cuhk.edu.hk/orientation2012/>
- Office of Student Affairs
  - <http://www.cuhk.edu.hk/osa/>





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~ Thank you very much ~

Q & A

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