

# International Curriculum at HKUST



# Credit-Based Curriculum

- Our **credit-based undergraduate programs** combine the advantages of traditional Chinese and British universities and the broad-based approach of American universities.
- Undergraduate programs focus on **four educational pillars** for balance and achievement:



- Broad-based education
- Global perspectives & int'l outlook
- Integration of theory & practice
- Personal Development

- Each undergraduate must complete at **least 100 credits** of course work. Programs usually consist of **six semesters of full-time studies** (*more credits are required for Prep Year, Early Admissions & Dual Degree Students.*)

## Curriculum for BSc in Biology

### Major Program Requirements

#### Core courses

BIOL 104	Cell Biology	[3-0-0:3]
BIOL 106	Biodiversity	[3-0-0:3]
BIOL 108	Plant Biology	[3-0-0:3]
BIOL 124	Cell Biology Laboratory	[0-2-3:3]
BIOL 128	Plant Biology Laboratory	[0-2-3:3]
BIOL 202	Animal Physiology	[3-0-0:3]
BIOL 206	Microbiology	[3-0-0:3]
BIOL 211	General Genetics	[3-1-0:4]
BIOL 216	Ecology	[3-0-0:3]
BIOL 222	Animal Physiology Laboratory	[0-2-3:3]
BIOL 226	Microbiology Laboratory	[0-2-3:3]

#### Required courses

BICH 121	Introduction to Biochemistry	[3-0-0:3]
BICH 172	Introductory Biochemical Laboratory	[0-0-6:2]
BICH 182	Biochemical Laboratory Techniques	[1-0-0:1]

#### Elective courses

Elective types		Minimum no. of courses	Minimum total credits
(1) BISC	Biological Science Elective	7	21
(2) COMP	Computer Science Elective	1	3
FREE	Free Elective	5	15

### General Education Requirements

Electives must be selected from amongst those general education courses that are listed on p. 490.

Elective types		Minimum no. of courses	Minimum total credits
GEE(ENGG)	Engineering General Education Elective	1	6
GEE(SB&M)	Business and Management General Education Elective	1	
(3) GEE(H&SS)	Humanities and Social Science General Education Elective	4	12

### Required Courses in English Communication

LANG 108	English for Science Students	[0-2-0:1]
LANG 208	Technical Communication for Science Students I	[0-2-0:1]
LANG 209	Technical Communication for Science Students II	[0-2-0:1]
LANG 308	Technical Communication for Science Students III	[0-2-0:1]

### Other Requirement:

(4) HLTH 001 Healthy Life Style [0 credit]

#### Notes:

(1) Students have to elect seven from the following courses. At least four of them should be 300- or above courses.

BISC 203 (a), BISC 207 (a), BISC 224 (a), BISC 309 (a),  
 BISC 317 (a), BISC 319 (a), BISC 362 (a), BISC 395 (a),  
 BISC 315 (b), BISC 363 (b), BISC 376 (b),  
 BISC 213 (c), BISC 233 (c), BISC 336 (c),  
 BICH 201 (a, b), BICH 202 (a, b), BICH 211 (a, b), BICH 221 (a, b),  
 BISC 212 (a, b), BISC 306 (a, b), BISC 314 (a, b), BISC 354 (a, b), BISC 355 (a, b),  
 BISC 338 (b, c), BISC 358 (a, b), BIOL 396 (a, b, c), BIOL 397 (a, b, c), BIOL 398 (a, b, c),  
 BISC 215 (a, b, c) and BISC and AMCE 500- or above level courses (a, b, c).

Students who select to register in BIOL 397 must register in BIOL 398.

These electives are marked with the appropriate concentration code(s):

a = Molecular and Cellular Biology

b = Biotechnology

c = Marine and Environmental Biology

Students who prefer to have a more focused series of electives may choose from courses with the same code.

(2) COMP 101 is a recommended elective which may be replaced by another approved COMP elective.

(3) Of these courses, at least one course in Humanities and one in Social Science are required.

(4) Students are required to take and pass this course in their first year of study. Details of the course and its requirements are announced on the course website <http://www.ab.ust.hk/sao/HLTH001> managed by the Student Affairs Office.

A minimum of 101 credits is required for the BSc program in Biology.

### Recommended Pattern of Study for BSc in Biology

1st year	Fall	C. BIOL 104, BIOL 106, BIOL 124 R BICH 121, BICH 172, BICH 182, LANG 108 O HLTH 001	(Total: 15 credits)
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	Spring	C BIOL 108, BIOL 128 R LANG 108 E COMP 101, GEE(H&SS), FREE O HLTH 001	(Total: 16* credits)
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2nd year	Fall	C BIOL 211, BIOL 216 R LANG 208 E BISC, GEE(ENGG), GEE(H&SS), FREE	(Total: 20 credits)
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	Spring	C BIOL 202, BIOL 206, BIOL 222, BIOL 226 R LANG 209 E BISC	(Total: 16 credits)
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3rd year	Fall	R LANG 308 E three BISC, GEE(SB&M), GEE(H&SS), FREE	(Total: 19 credits)
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	Spring	E two BISC, GEE(H&SS), two FREE	(Total: 15 credits)
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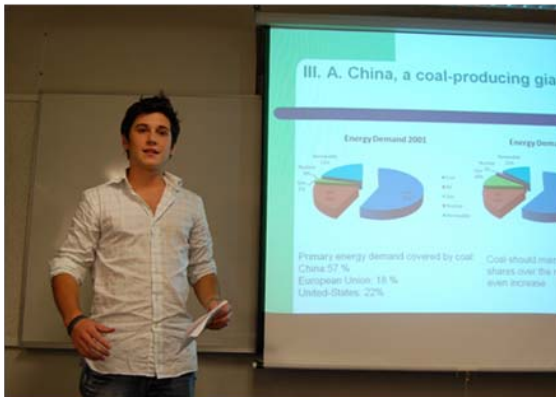
# International Accreditation & Recognition



- HKUST's **School of Business and Management** was first **Asian business school** to be awarded **Dual Accreditation** by **AACSB International** (*Association to Advance Collegiate Schools of Business*) & **EQUIS** (*European Quality Improvement System*).
- The School of Business and Management is also **represented on all major business education organizations**, including the **AACSB**, **Beta Gamma Sigma**, the **Association of Asia Pacific Business Schools** and **GMAC**.
- Programs offered by HKUST's School of Engineering are **recognized by the Hong Kong Institution of Engineers**.
- Through the **Washington Accord**, HKUST engineering degrees and those awarded by universities in the US, UK, Canada, Australia, New Zealand, S. Africa, Ireland, Japan and Singapore are **mutually recognized**, which opens up an international spectrum of career prospects to our graduates.

# Internationalized Learning Environment

- **English is the medium of instruction at HKUST.** All courses are taught in English (*except for selected courses in humanities, social science and language*).
- HKUST has **highly internationalized faculty**, with most of them educated abroad and/or have prior teaching experience overseas. The internationalization learning environment creates “a strong sense of community among and between staff and students” (*Quality Audit Report of HKUST, Quality Assurance Council, Nov 2010*).



# Student Exchange Program

- HKUST has one of the most extensive student exchange networks in Asia, with **170 partner institutions\*** worldwide.
- Approximately **1/3 of undergraduates** are chosen for **outbound exchange**, and **500 undergraduates** join HKUST for **inbound exchange** every year. To promote international exchange, HKUST's curriculum needs to integrate with the rest of the world

## No. of Exchange Partner Institutions:

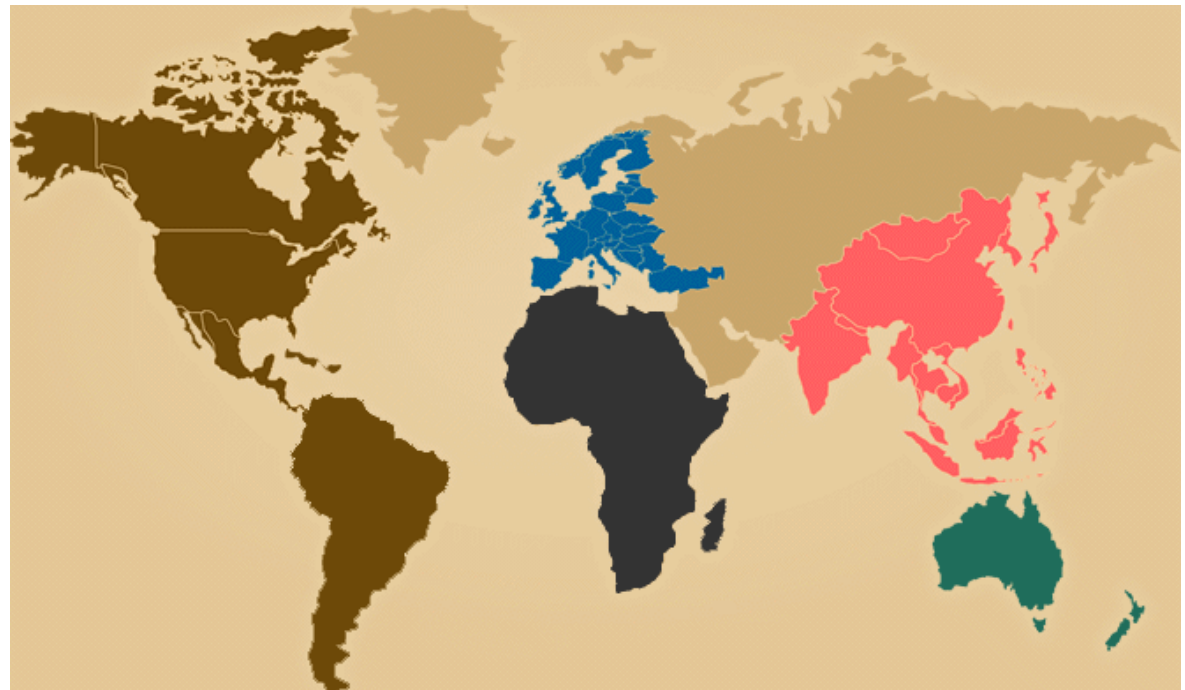
Americas (65)

Asia (38)

Europe (61)

Oceania (6)

*\* As of Feb 2011*



# Co-curricular Activities

- HKUST students have many opportunities to participate in **international co-curricular activities**, such as **academic conferences, case competitions, service learning trips and overseas internships**. Students would gain valuable international exposures outside of the classroom.
- Examples of recent student participation in international co-curricular activities:
  - **Citi International Case Competition** (Nov 2010, HKUST)
  - **International Genetically Engineered Machine Competition (iGEM)** (Dec 2010, MIT)
  - **Habitat for Humanity's Global Village Program** (Jan 2011, Thailand)
  - **Service Learning Trips to Cambodia and China** (Jan 2011)



# Graduate Employment

- Employers of HKUST graduates are multinational companies, which actively look for prospective employees with attributes that make them **adaptable to the increasingly internationalized working environment**. To enhance the career prospect of our students, our Curriculum needs to be comparable to major universities worldwide.
- HKUST graduates are described by corporations as **“flexible”, “professional”, “quick learner”, and “possessing leadership qualities”**.





# Q & A

