



The University of Hong Kong

Department of Chemistry

2009-2010



**Chong Yuet Ming Chemistry Building
The University of Hong Kong
Pokfulam Road, H.K.**

Website: <http://chem.hku.hk>

Chemistry Prizes / Scholarships



Vacoas II Trust Scholarship

(Up to four scholarships each year for 1st year Chemistry Major students, **\$10,000** each)

Dorothy Collins Memorial Scholarships

(Up to three scholarships each year for 1st year Chemistry Major students, **\$10,000** each)

Cheung King Pak Memorial Scholarship

(1st year Chemistry Major students, the interest generated from the investment of the donation in that year)

Rayson Huang Scholarships

(Two scholarships for two Chemistry Major students entering the 2nd year, **\$10,000** each)

Norman Chui Scholarship

(**\$5,000** each, two scholarships each year)

Rohm and Haas Electronic Materials Asia Ltd Scholarship

(**\$10,000** for the selected final year Chemistry Major student)

Douglas Payne Prizes in Chemistry

(**\$400** book prize for the best Chemistry Major student completing 1st year;
\$1,200 for the best Chemistry Major student in Analytical Chemistry completing 3rd year)

Dick Arthur Memorial Prize in Chemistry

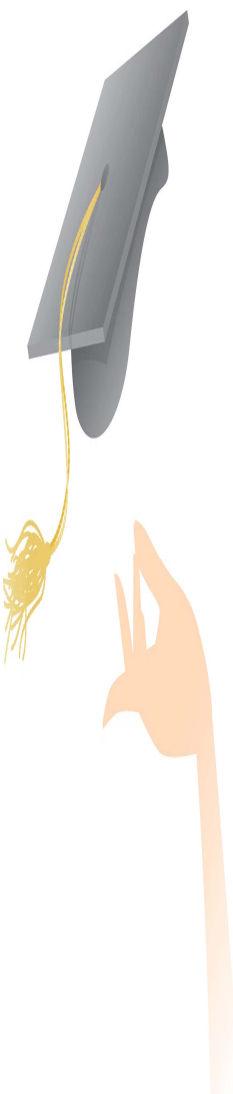
(**\$2,800** book prize for the best Chemistry Major 3rd year student in Organic Chemistry)

G.T. Byrne Memorial Prize in Chemistry

(**\$2,500** for the best Chemistry Major student among those completing 3rd year)

Selected Names of Employers and Job Titles for 2006 - 2008 Chemistry Graduates

Civil Service	
Ambulance Command, The Fire Services Dept	Ambulance Officer
Hong Kong Correctional Services	Officer of Correctional Services
Education Institutions	
St Francis Xavier's College	Graduate Master
Po Leung Kuk Ngan Po Ling College	Laboratory Technician
HKU SPACE	Executive Assistant
Community, Social & Personal Services	
Hong Kong Productivity Council	Research Assistant
FCS Interior Design	Commercial Manager
Commerce & Industry	
Gene Harbour (HK) Technologies Ltd	Associate Scientist
CARNET	Brand Coordinator
Bureau Veritas HK Ltd	Chemist Trainee
Cathay Pacific Airways Ltd	Management Trainee
Dah Sing Bank	Management Trainee
Christian Dior Far East Ltd	Marketing Assistant
Standard Chartered Bank (HK) Ltd	Personal Financial Manager Trainee
Kou Hing Hong Scientific Supplies Ltd	Product Specialist
Pearson Education Asia Ltd	Project Assistant
SGS Hong Kong Ltd	Technician
Etc.	



BSc Degree Curriculum (For BSc Year 1 Students 2009-2010)

To be awarded a degree of Bachelor of Science, you must fulfill the following:

- a) take 180 credits of courses
- b) pass 180 credits of courses of which at least 90 credits must be gained from Science courses, of which no less than 60 credits must be gained from advanced science courses (level 2 and 3 courses)
- c) pass
 - (i) ECEN1801 Academic English for Science Students (1st year)
 - (ii) ECEN2802 Advanced English for Science Students
 - (iii) CSCI0001 Practical Chinese Language Course for Science Students (1st year)
 - (iv) a 3-credit broadening course in 'Humanities & Social Sciences Studies'
 - (v) IT proficiency requirement: YITC1002 Information Technology Proficiency Test
 - (vi) all required courses as prescribed in the major and minor curriculum; and the Faculty electives (refer to a pass of at least 6 credits from each of the Blocks A, B and C)

BSc Curriculum Requirements (180 credits)

Choose one option

Option A

One Major

e.g. **Chemistry Major**

Option B

One Major
+
One Minor

e.g.
CHEM major + FNS minor,
or
CHEM major + ECON minor

Option C

Double Major *

e.g.
CHEM major + PHYS major
or
CHEM major + FINA major

* (Students must meet certain minimum academic requirements to declare a 2nd major; and quota & timetabling restrictions may also apply)

Major in Chemistry (for students admitted to the 1st year in 2007 or thereafter)

Minimum Entry Requirement: AL Chemistry or a pass in CHEM0008 or equivalent

Minimum Credit Requirement: 72 credits (as below)

1. Introductory Level Courses (18 credits)		
CHEM 1002	Chemistry: Principles & Concepts	6 credits
CHEM 1003	Chemistry: The Molecular World	6 credits
CHEM 1004	Chemistry: An Experimental Science I	6 credits
2. Advanced Level Courses (48 credits)		
CHEM 2202	Chemical Instrumentation	6 credits
CHEM 2302	Intermediate Inorganic Chemistry	9 credits
CHEM 2402	Intermediate Organic Chemistry	9 credits
CHEM 2503	Intermediate Physical Chemistry	9 credits
CHEM 2510	Principles & Applications of Spectroscopic & Analytical Techniques	6 credits
PLUS at least 9 credits of advanced chemistry courses of which 6 credits must be at CHEM3000 level.		
3. Experiential Learning Requirement (6 credits) Students must take at least one of the following		
CHEM 2111	Directed Studies in Chemistry	6 credits
CHEM 3105	Chemistry Project	12 credits
CHEM 3988	Chemistry Internship	6 credits
SCNC 2005	Career Development for Science Students	non-credit bearing
Exchange Programme via HKU World Wide Exchange Programme (1 semester or 1 year)		non-credit bearing
Any other activities determined by the Faculty to conform to the spirit of experiential learning experience		non-credit bearing

Minor in Chemistry (for students admitted to the 1st year in 2009 or thereafter)

Minimum Entry Requirement: AL Chemistry or a pass in CHEM0008 or equivalent

Minimum Credit Requirement: 36 credits (as below)

1. Introductory level courses (12 credits)		
Choose two of the following		
CHEM 1002*	Chemistry: Principles & Concepts	6 credits
CHEM 1003	Chemistry: The Molecular World	6 credits
CHEM 1009*	Basic Chemistry	6 credits
CHEM 1401	Fundamentals of Organic Chemistry	6 credits
2. Advanced level courses (24 credits)		
Any 24 credits of advanced level chemistry courses at CHEM2000 or CHEM3000 level subject to pre-requisite.		

* CHEM 1002 and CHEM 1009 are mutually exclusive.

Chemistry Courses

(<http://chem.hku.hk>)

- We offer a wide variety of courses which can suit different needs of students.

Bridging Course

CHEM0008 Fundamental Chemistry <i>For students with HKCEE Chemistry or equivalent only who wish to further study other chemistry courses</i>	6 credits
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Inter-Faculty Elective Courses

CHEM0003 Chemistry and Daily Life <i>(a general education course as an elective for students in all disciplines, not for chem majors)</i>	3 credits
CHEM1006 Introduction to Forensic Science <i>(for science students)</i>	3 credits
YSCN0017 From Sherlock Holmes to Modern Forensic Science <i>(for non-science students)</i>	3 credits
YSCN0027 Chemistry in Sport <i>(for non-science students)</i>	3 credits

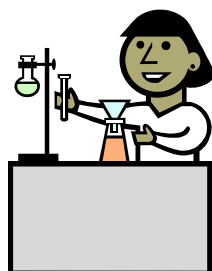
**Introductory
Courses**

CHEM1002 Chemistry: Principles and Concepts	6 credits
CHEM1003 Chemistry: The Molecular World	6 credits
CHEM1004 Chemistry: An Experimental Science I	6 credits
CHEM1009 Basic Chemistry	6 credits
CHEM1401 Fundamentals of Organic Chemistry (for non-chemistry major students who are interested in organic chemistry)	6 credits

Subject highlighted in blue – Chem Major Core Course (see P.19)

Subject highlighted in yellow – Chem Minor Core Course (choose two courses, see P.7)

For course descriptions, pls go to <http://chem.hku.hk>

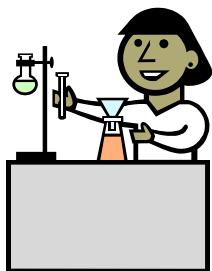


Advanced Courses



CHEM2102 Environmental Chemistry	6 credits
CHEM2103 Chemical Process Industries and Analysis	6 credits
CHEM2109 Introduction to Materials Chemistry	6 credits
CHEM2111 Directed Studies in Chemistry	6 credits
CHEM2202 Chemical Instrumentation	6 credits
CHEM2207 Food and Water Analysis	6 credits
CHEM2302 Intermediate Inorganic Chemistry	9 credits
CHEM2402 Intermediate Organic Chemistry	9 credits
CHEM2503 Intermediate Physical Chemistry	9 credits
CHEM2509 Principles of Chemical Biology	6 credits
CHEM2510 Principles and Applications of Spectroscopic and Analytical Techniques	6 credits

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Advanced Courses

CHEM3105 Chemistry Project	12 credits
CHEM3106 Symmetry, Group Theory and Applications	6 credits
CHEM3107 Interfacial Science and Technology	6 credits
CHEM3110 Advanced Materials	6 credits
CHEM3203 Analytical Chemistry	9 credits
CHEM3204 Modern Chemical Instrumentation and Applications	6 credits
CHEM3303 Advanced Inorganic Chemistry	9 credits
CHEM3304 Organometallic Chemistry	6 credits
CHEM3403 Integrated Organic Synthesis	9 credits
CHEM3404 Advanced Organic Chemistry	6 credits
CHEM3405 Organic Chemistry of Life	6 credits
CHEM3407 Medicinal Chemistry	6 credits
CHEM3505 Molecular Spectroscopy (<i>not available in 2009-2010</i>)	6 credits
CHEM3506 Computational Chemistry	6 credits
CHEM3513 Advanced Physical Chemistry	6 credits
CHEM3988 Chemistry Internship	6 credits

For course descriptions, pls go to <http://chem.hku.hk>

Communication Channels



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