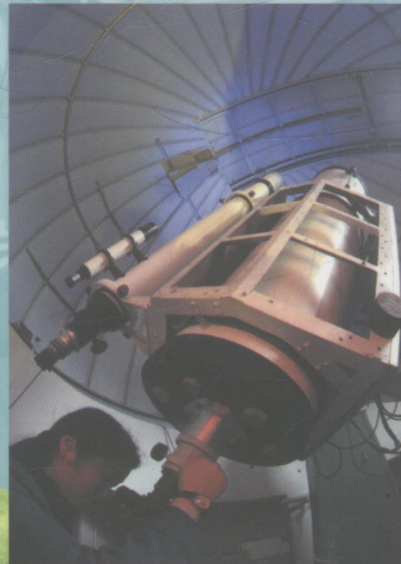


2004-2005
Guide to Application for Admission

MPhil and PhD Studies at The University of Hong Kong



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Graduate School
THE UNIVERSITY OF HONG KONG

The University's Mission

Since its foundation in 1911, the University of Hong Kong has given unparalleled service to Hong Kong and the region, drawing on the great cultural traditions of China and the West. We shall strive to continue to offer the highest standards of teaching, research, and scholarship as practised in the wider, international academic community, in an environment conducive to creativity, to learning, and to freedom of thought, enquiry and expression.

We shall continue to produce graduates who are equipped to contribute to the intellectual, social, political, moral and material development of the societies in which they are to live; and to recognize that the development of contemporary societies reflects diversity alongside consensus and acknowledgement of the past as well as concern for innovation.

We shall continue to undertake research, consultancy and other forms of service to local and regional communities which will enrich our teaching and advance our quest for wisdom and truth.

We shall make known our mission in Hong Kong and internationally.

The University's Goals

To fulfil our mission we have six major goals. Those goals guide our planning strategies, which we review and update annually. We do our utmost to achieve each goal by safeguarding our established freedom to create an environment of excellence in teaching and research and by maintaining our status as a leading institution of higher education in the region.

- To develop the best qualities of our students
- To facilitate and maintain excellence in teaching
- To advance knowledge through research and scholarly activity
- To attract the most intellectually able staff and students
- To secure and manage the resources to implement our goals
- To disseminate knowledge to benefit and serve Hong Kong, China and the international community

A Message from the Dean, Graduate School

We appreciate your interest in the graduate programme in the University of Hong Kong. We offer MPhil and PhD programmes encompassing a wide range of subjects in Arts, Business and Economics, Dentistry, Education, Engineering, Law, Medicine, Science, Social Sciences, Asian Studies, Urban Planning and Environmental Management and many others.

Our academic staff members are committed to quality teaching and supervision. Many of them have international visibility through cutting-edge research and pioneering publications, and their work is recognized as world-standard. The University provides excellent libraries, state-of-the-art technological resources and most importantly, a collegial, flexible, pluralistic and supportive environment that inspires creativity, learning and research.

We have outstanding alumni. They excel in both academic and non-academic endeavours. They have become leaders in their own fields, and have a record of achievement in which we take great pride.

I invite you to learn more about the University through this guide and by contacting our Postgraduate Admissions Advisors in the relevant department. If you find there is a match between your aspirations and what we offer in our programme, I strongly encourage you to apply.



Professor Anthony Yeh
Dean, Graduate School
October 2003

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The University of Hong Kong

<http://www.hku.hk>



MPhil and PhD Studies at The University of Hong Kong 2004-2005

General Information

The University of Hong Kong, founded in 1911 to build on the work of the Hong Kong College of Medicine (established in 1887), is the oldest tertiary institution in Hong Kong. The main estate is situated on the north-western slopes of Hong Kong Island and overlooks Victoria Harbour.

In 2002-2003 the University had a student population of over 14,800, including 9,020 undergraduate students and 5,800 postgraduates students (of which 1,830 were MPhil and PhD students). From modest beginnings with only two faculties, the University has grown to embrace almost every major area of teaching and research, and can now confidently claim to be one of the best and most well-established universities in the region. It now has ten Faculties (Architecture, Arts, Business & Economics, Dentistry, Education, Engineering, Law, Medicine, Science and Social Sciences) which offer more than 550 first degree programmes and 30 Master's degree curricula. In addition, all Faculties and their departments provide teaching and supervision for research (MPhil and PhD) students.

The University is a self-governing corporation, which draws its income from endowments, grants from the Hong Kong SAR Government, and fees.

Research Postgraduate Studies and Research at the University of Hong Kong

Research postgraduate students are an important and valued part of the University. They currently make up 12% of the total student population of 14,800. The University also values the important role of non-Hong Kong graduate students (35% of the total research postgraduate student population of 1,830). These presently come from 38 different countries, and provide intellectual stimulation and an important contribution to the social and cultural life of the University. International graduates are attracted to HKU mainly because of its high international reputation as a world class research university, and also because of its use of the English language as the medium of instruction.

The University recognizes that quality teaching, particularly from a strong research base, is often the stimulus for graduates to embark upon research studies. As the leading comprehensive research university in Hong Kong and the region, we aim to maintain high quality research and postgraduate activities across a broad spectrum of disciplines, and to encourage work of a multi-disciplinary nature. In this connection, the University has identified and provided support to various Areas of Excellence as well as proposals that will make leading-edge contributions to the academic community. Many of these areas have developed extensive international networks and strong inter-institutional collaboration work.

Graduates of the University are employed in high-level positions in universities, government, business and industry in Hong Kong and around the world. According to a recent survey, many of our research graduates held senior academic positions in local tertiary institutions; others were senior academics or active researchers in overseas universities/institutions. Some of them were working in prominent universities such as the University of Cambridge, the University of Oxford, Yale University, and the Massachusetts Institute of Technology.

The University offers MPhil, 3-year PhD (for those who already have a research Master's degree) and 4-year PhD (for those who have a Bachelor and/or a taught Master's degree) programmes. In addition to the long-established one-to-one mentorship system of supervision, a coursework component has been introduced that aims to provide research training to assist the MPhil and 4-year PhD students to complete their studies within their study period.

The University has excellent infrastructure, services and facilities to support postgraduate studies. Postgraduate studentships, scholarships, research grants and conference/travel grants are provided to high-calibre research students. All full-time local research students may be eligible to apply for financial assistance made available by the government. The University's world-class library and computer facilities ensure that students have access to the best learning and research environment. The Graduate House and graduate student hostels provide accommodation for postgraduate students as

well as amenity facilities and a focal point for postgraduate activities. Postgraduate students also have access to student and medical services and sporting and leisure facilities. They have the opportunity to take an active part in the social life of the University through various activities organized by the University and student associations.

There has been a strong commitment to the development of communication technologies and multi-media teaching within the University in recent years. The University has endeavoured to create a digital campus to encourage teachers and students to make wider use of information technology as well as to benefit from efficient electronic information exchange.

The University has currently over 1,010 teaching and research staff supported by a government block grant. They are recruited internationally, and are highly visible in cutting-edge research and international publications. They form a strong team in the provision of high quality postgraduate programmes. The University is committed to fulfilling its mission to offer the highest standards of teaching, research and scholarship by continuing to recruit high quality staff internationally.

Medium of Instruction and Examination

The medium of instruction of the University is English except in the Department of Chinese for which it is either Cantonese or Putonghua (Mandarin). All applicants for admission are expected to be fluent in English. Applicants for admission to higher degree studies in Chinese must also be fluent in both written and spoken Chinese. Applicants for admission may be required to sit for English language tests or examinations conducted either by the University or by a public examination authority (see section of "General Qualifications for Admissions").

Graduate School

<http://www.hku.hk/gradsch>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The Graduate School was established by the Senate in June 1998 to replace the former School of Research Studies. The Graduate School sets guidelines on research postgraduate education (the research degrees of MPhil and PhD), and is responsible for the implementation of policies set by the Policy Board of Postgraduate Education. The School serves as a focus in the University for the affairs of all research postgraduate students, and its major roles are:

- to provide supporting services for prospective research students, current research students and staff engaged in supervision;
- to monitor and review the admission process and the academic progress of research students;
- to determine the results of research candidates on the recommendation of the Boards of Examiners;
- to organise courses on thesis writing and research skills and methods as part of the core programme for MPhil and 4-year PhD studies;
- to disseminate good practice and ensure that it is applied in faculties/departments;
- to maintain a regular review mechanism and provide feedback for policy considerations;
- to participate in the formulation of policy on a wide range of issues affecting research students, including residential accommodation, postgraduate studentships, research support and other welfare;
- to prepare and maintain guidelines for students and their supervisors, to ensure the effective and efficient conduct and completion of their candidature;
- to advise on quality assurance and the academic audit of graduate training and supervision;
- to organise training workshops in research supervision for new supervisors of research students;
- to organise an induction programme for new research students to introduce them to the University and the wide range of support services provided for their benefit;
- to organise seminars and lectures of general interest to postgraduate students and help to fund distinguished visiting academics who will interact with postgraduate students;
- to compile data on sources of financial support for personal and research needs and on all the other information of interest to graduate students, including details of opportunities for further study outside Hong Kong;
- to prepare and maintain a database on research postgraduate students;
- to keep up-to-date with international developments, innovations and practices in graduate education, especially in North America (where the University is an international associate member of the Council of Graduate Schools), Europe and China.

The Dean of the Graduate School is Professor Anthony Yeh, who holds this position concurrently with his primary appointment as Chair of Urban Planning and Geographical Information Systems in the Centre of Urban Planning & Environmental Management. Professor John Burns (Chair of Politics and Public Administration) and Professor Francis Chin (Chair of Computer Science) work with Professor Yeh as Associate Deans. The School is governed by the Policy Board of Postgraduate Education, a committee of the Senate and the School's main strategic and policy-making body. Under the Policy Board are the Board of Graduate Studies and the Board of Examination for Graduate Studies.

The School's office is located in Room P403 of the Graduate House (Tel: 2857 3470; Fax: 2857 3543; E-mail: gradsch@hkucc.hku.hk; and homepage: <http://www.hku.hk/gradsch>).

Research Degree

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Definitions

The University offers Master of Philosophy (MPhil), 3-year and 4-year Doctor of Philosophy (PhD) programmes. A successful MPhil thesis should represent the result of the candidate's research which displays some originality and which demonstrates a sound understanding of the field of study and the appropriate research methods, and a successful PhD thesis should represent the result of the candidate's research which should be an original contribution to knowledge and worthy of publication.

Candidates will conduct research work under the supervision of at least one member of the University's teaching staff. Candidates without a research Master's degree shall be considered for admission to a 4-year PhD programme, and those who hold research Master's degrees shall be considered for admission to a 3-year PhD programme. Candidates for the research degrees of MPhil and 4-year PhD will be required to follow an approved course of study and research including coursework. The objective of coursework component is to aid research work and preparation for writing the thesis. A candidate shall be required to take at least five but not more than ten courses as specified in the coursework syllabuses. The number of courses specified will include two compulsory courses offered or approved by the Graduate School. Please refer to the section of "Coursework Requirement" for details.

A student may register as a full-time candidate when he or she holds

- (a) no employment; or
- (b) part-time employment (whether inside or outside the University), provided that the employment entails not more than 150 hours of work per annum; or
- (c) a University Research Assistantship, provided that the work undertaken in this capacity is focused on the topic of the holder's research degree study.

The status of the candidature must be affirmed in the form of a written declaration by the head of department, the supervisor(s) and the student.

A full-time candidate may hold a University postgraduate studentship or another postgraduate studentship or scholarship which is intended to enable him or her to study on a full-time basis.

Period of Study

Candidates pursuing MPhil or PhD studies are first required to register provisionally for the degree and their registration is subject to a probationary period specified below. At the end of this probationary period and after submission of a detailed scheme of research, the candidature shall be confirmed or terminated.

Degree	Full-time		Part-time	
	Study Period	Probationary period	Study period	Probationary period
MPhil	24 months	12 months	36 months	18 months
3-year PhD	36 months	12 months	54 months	18 months
4-year PhD	48 months	18 months	72 months	24 months

MPhil students may apply for transfer to PhD after confirmation of candidature and after completion of coursework requirements, provided that such transfer is approved at least 3 months prior to the expiry of the MPhil candidature. PhD students may apply for transfer to MPhil within the first 12 months (3-year PhD) or 18 months (4-year PhD) of candidature, in the case of full-time students; or within the first 18 months (3-year PhD) or 27 months (4-year PhD), in the case of part-time students.

The results of the research must be presented in the form of a thesis, which will be examined by both internal and external examiners. In addition, candidates are required to take an oral examination. Other examinations may be prescribed if they are deemed necessary.

Fields of Study

Candidates may be accepted for research studies leading to the degree of MPhil or PhD by a teaching department of the University or by an academic centre/institute/school/unit. The principal areas of studies are listed in the chapters on the Faculties.

Schedule of Fees for 2004-2005 (in HK\$)

Application	\$150 (non-refundable)
Caution Money	\$350
Composition	
Full-time	\$42,100* p.a.
Part-time	\$28,070* p.a.

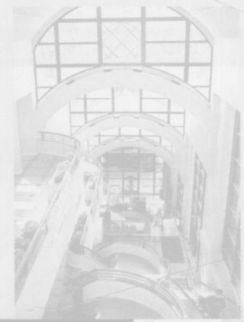
*subject to revision

Fee Payment

The annual Composition Fees are normally payable in two instalments. Candidates are required to pay Composition Fees on first registration and thereafter during the period of study, and the Continuation Fees quarterly thereafter if they are permitted/required to study beyond such period.

Coursework Requirement

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Compulsory Coursework Component

The University of Hong Kong introduced compulsory coursework components in the MPhil and 4-Year PhD programmes, with effect from September 1999 and September 2001 respectively, with the aim of helping students' research work and preparation for writing their thesis. All MPhil and 4-Year PhD students are required to satisfactorily complete two Graduate School core courses and three to eight faculty/departmental courses before thesis submission. Two Graduate School core courses and at least 50% of the faculty/departmental coursework requirements have to be completed before the end of the probationary period.

Graduate School Core Courses

The Graduate School Core Courses are meant to equip students with generic knowledge on thesis writing and research methodologies. These courses are not meant to provide students with discipline-specific knowledge which the faculty/departmental courses will be able to provide.

The requirements of the Graduate School core courses are as follows:

- Core Course I: Introduction to Thesis Writing (compulsory)
- Core Course II: Basic Research Skills and Methods (select 2 elective modules from the list below)
 - Writing Workshops I: Making your writing clear
 - Writing Workshops II: Reporting on other researchers' work
 - Oral English for Academic Purposes
 - Data Analysis
 - Transferable Skills
 - Ethics & Research
 - Logic & Critical Thinking
 - How to Publish your Research (The Humanities & Related Disciplines)
 - How to Publish your Research (The Science & Related Disciplines)
 - Basic Quantitative Research Methods
 - Intermediate Quantitative Research Methods
 - Qualitative Research Methods

Faculty/Departmental Courses

Besides the Graduate School core courses, individual Faculties/Departments have additional course requirements. The requirements of the Faculty/Departmental courses in 2003-2004 are as follows:

Faculty/Department/Centre	Compulsory course(s) required	Elective course(s) required
Faculty of Architecture		
Architecture	1	2
Real Estate & Construction	1	2

Faculty/Department/Centre	Compulsory course(s) required	Elective course(s) required
Faculty of Arts		
Chinese	3	1 or 2 subject to Department's approval
Comparative Literature	0	3
English	2	3
Fine Arts	2	1
Geography	3	0
History	4	0
Japanese Studies	3	1
Linguistics	2	1
Music	4	0
Philosophy	3	0
Faculty of Business & Economics		
School of Business	1	3
School of Economics & Finance	2	2
Faculty of Dentistry		
	1 (Triple course)	0
Faculty of Education		
Division of Speech & Hearing Sciences	3	0
All other Divisions	0	3
English Centre	1	2
Institute of Human Performance	0	3
Faculty of Engineering		
Civil Engineering	0	4
Computer Science & Information Systems	0	3
Electrical & Electronic Engineering	0	4
Industrial & Manufacturing Systems Engineering	0	3
Mechanical Engineering	1	2
Faculty of Law		
	1	2
Faculty of Medicine		
All MPhil / 4-year PhD candidates are required to take 3 Faculty / Department-based courses, at least 2 Faculty/ Department-based courses should be satisfactorily completed within the probationary period. The remaining Faculty/ Department-based course can be taken after the probationary period.		
Faculty of Science		
Botany	1	2
Chemistry	1	2
Earth Sciences	2	1
Ecology & Biodiversity	3	0
Mathematics	1	2
Physics	1	2
Zoology	1	2
Faculty of Social Sciences		
Politics & Public Administration	3	0
Psychology	4	0
Social Work & Social Administration	1	2
Sociology	4	0
Statistics & Actuarial Science	1	2

Faculty/Department/Centre

Centre of Asian Studies

All MPhil/4-year PhD candidates are required to take 1 compulsory course from the Centre and 2 elective courses from the Graduate School/the Faculty of Arts or Social Sciences.

Centre of Buddhist Studies

All MPhil/4-year PhD candidates are required to take 1 compulsory course from the Centre and 2 elective courses from the Master of Buddhist Studies programme/the Faculty of Arts or Social Sciences.

Centre of Urban Planning & Environmental Management

All MPhil/4-year PhD candidates are required to take 1 compulsory course from the Centre and 2 elective courses from Taught Master Programmes offered by the Centre.

Journalism and Media Studies Centre

All MPhil/4-year PhD candidates are required to take 2 compulsory courses and 1 elective course from the Centre.

Social Sciences Research Centre

All MPhil/4-year PhD candidates are required to take 1 compulsory course from the Centre and 2 elective courses from the Graduate School/the Faculty of Arts or Social Sciences.

3-Year PhD Students

3-year PhD students are not required by the regulations to take coursework. However, they are welcome to enrol in any Graduate School courses which they find useful. Students who take these courses optionally will be assessed like all other students in class and their results (including failures) will be printed on their transcripts.

Note: The Faculty of Engineering also requires 3-year PhD students in the Department of Civil Engineering (except those who completed MPhil degree in HKU's Department of Civil Engineering) and the Department of Electrical and Electronic Engineering to take compulsory coursework before thesis submission. Please contact the Faculty of Engineering Office for details.

Assessment

All courses/modules are assessed on a pass/fail basis. Students who fail a course at the first attempt may be re-examined in the same course or an alternative course as determined by the Faculty Higher Degrees Committees. A student who has not satisfied the examiners in any course (which, for this purpose, includes the alternative course) in a second attempt may be required to discontinue his or her studies.

Application for Exemption

Students who have successfully completed the required course(s) or equivalent(s), either from the University of Hong Kong or a comparable institution, may apply for exemption of one or more course(s). Students will need to produce documentary evidence of having attended and passed the relevant course(s) with an equivalent standing in the University or other recognized academic institution. Exemption from courses is subject to the approval of the Board of Graduate Studies on a case-by-case basis, taking into account the individual circumstances.

Admissions

MPhil and PhD Studies at The University of Hong Kong 2004-2005

General Qualifications for Admissions

The basic qualification necessary for admission to research postgraduate studies is a good honours degree from this University or an equivalent qualification from comparable institutions. In addition, certain degree courses have more specific requirements. Qualifying examinations to test the applicants' abilities to follow the prescribed courses and/or interviews may be conducted. Applicants with qualifications other than an honours degree are considered on their individual merits.

Applicants who wish to be admitted to higher degrees on the basis of a qualification from a university or a comparable institution outside Hong Kong where the language of teaching and/or examination is not English are required to obtain:

- (a) a score of 550 or above (paper-based test) or 213 or above (computer-based test) in the Test of English as a Foreign Language (TOEFL) (applicants for admission to read for an MPhil or a PhD degree in the Faculty of Arts are also required to obtain a Test of Written English (TWE) score (paper-based test) or Essay Rating (computer-based test) of 4 or above; those seeking admission to the Department of Chinese are exempted from the TWE / Essay Rating requirement.); Applicants who took the TOEFL should request the Educational Testing Service (ETS) to send an official score report to the University direct. For this purpose, the TOEFL code of the University is 9671. [It is a policy of the TOEFL Policy Council to validate scores which are obtained within a two-year period. The University therefore accepts this two-year validity rule in the admission exercise]; or
- (b) a minimum overall band of 6 with no subtest lower than 5.5 in the International English Language Testing System (IELTS) (applicants of admission to read for an MPhil or a PhD degree in the Faculty of Arts are required to obtain an overall band of 7 with no subtest lower than 5.5 in the IELTS); or
- (c) grade C or above in the Overseas General Certificate of Education (GCE); or
- (d) grade C or above in the International General Certificate of Secondary Education (IGCSE); or
- (e) grade C or above in the Cambridge Test of Proficiency in English Language; unless in exceptional circumstances they are exempted from this requirement.

Since places for postgraduate studies are limited, it may not be possible to offer admission to all qualified applicants.

Application Procedures

The main round of applications for research degrees will be invited in late 2003. The closing date for this round will be 31 January 2004. Clearing round applications may be invited in May and September 2004 if there are study places left. The closing dates for these rounds will be 31 May 2004 and 30 September 2004 respectively. Applicants are therefore advised to apply early. MPhil candidates may commence their studies on 1 September 2004 or 1 January 2005. Applicants who are unable to commence their candidature on 1 September 2004 will be allowed to commence on 1 January 2005. Successful PhD applicants, however, may commence their candidature on the first day of any calendar month during the academic year. Applications should be made at least three months before the intended date of registration, allowing extra time as necessary for visa and other formalities.

There are two ways for submitting an application:

- **By paper form**

Application forms are available from the Graduate School office (P403, Graduate House, HKU main campus) and the Academic Services Enquiry Office (UG05, Knowles Building, HKU main campus), and can be downloaded from the Graduate School's website at www.hku.hk/gradsch. The completed application form should be returned to the Graduate School by the appropriate closing date.

- **By electronic form**

Starting from December 2003, applicants will also be able to submit their applications for admission online. The online application system can be accessed at www.hku.hk/gradsch/online. It allows online payment of the application fee by credit card and acknowledgement of applications by email. Please visit the link above for details.

Each application MUST include the following supporting documents:

- (a) Officially certified certificates and complete official transcripts of the applicant's undergraduate and postgraduate studies. Documents which are not in English should be accompanied by a formally certified translation in English. Photocopies of documents not properly certified will not be accepted. It is to the advantage of current undergraduate or postgraduate students to submit an interim transcript showing the results of courses they have so far completed. Certified certificates and official transcripts are not required for qualifications obtained from HKU, but HKU graduates are requested to submit a photocopy of the transcript with their application; and current students are requested to attach a printout of examination results from Student Connect.
- (b) A statement of research interest or research proposal depending on the programme applied for and the proposed department of study. For the degree of MPhil, applicants should prepare a statement of research interest, including their reasons for undertaking graduate work at the University of Hong Kong. [However, applicants to the Faculty of Arts, the Faculty of Dentistry and the Faculty of Law should prepare a detailed research proposal. The MPhil research proposal for the Faculty of Arts should be 2-3 pages. MPhil and PhD applicants to the Faculty of Education are required to submit a 4-page Research Proposal Summary and the proforma is available at the Office of Research of the Faculty of Education. They should contact the heads of the appropriate departments about their proposed research before they submit their applications for admission.] PhD applicants should prepare a detailed research proposal giving a clear description of the particular aspect of the field in which they are interested, and explaining the particular approach which they propose to take in studying the subject matter. Applicants may be refused admission if the University considers that they are insufficiently prepared or that the proposed research cannot be successfully pursued at the University. [MPhil and PhD applicants to the Faculty of Dentistry should obtain information about the proposal requirements from http://www.hku.hk/gradsch/docs/dent_proposalsummary.doc or the Faculty office, and ideally should discuss the proposal with a proposed supervisor before submission.]
- (c) Two referee reports on the forms provided from two people familiar with the applicant's academic achievements. Applicants may either invite their referees to send the completed referee report to the Graduate School directly, or request the referees to return the referee report to them in a signed and sealed envelope, and then send the unopened envelopes to the Graduate School themselves.
- (d) Proof of payment of HK\$150 or US\$20, being the application fee (non-refundable). Local applicants should submit the original customer copy of the Account Deposit Form or the ETC transaction advice as proof of payment of the application fee (account no.: 002-222834-014 (Ref: 4001)). Overseas applicants should pay by a bank draft drawn on a bank in Hong Kong and made payable to "The University of Hong Kong". [Note: Please write your full name and proposed department of study on the back of the pay-in-slip or bank draft for identification purposes.] Applicants who wish to apply via the online application system are required to pay the fee by credit card online.

Applicants who submit their applications in hard copy are requested to attach all supporting documents. If some of the supporting documents are not ready or available at the time of submission of applications, they should send the documents to the Graduate School as soon as they are available with their full name in English and the proposed curriculum and department of study clearly written on the top right hand corner of each document. Applicants who submit their applications in electronic form should submit such documents to the Graduate School by mail. In either case, all supporting documents should reach the Graduate School on or before the closing date and due allowance should be made for postal delays.

All documents submitted in support of an application will be destroyed if the application is unsuccessful. Do not send original or irreplaceable documents.

Concurrent Registration

Concurrent registration by a student of this University for another postsecondary qualification either at this University or at another institution is not permitted, unless approval of the Senate has been obtained in advance.

Overseas Applicants

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Cost of Living

Overseas applicants offered places may be required to show that they are able to support themselves financially throughout the course before they are allowed to commence their studies. It is very difficult to provide a precise estimate of the likely cost because it will vary from one person to another depending on the type of accommodation selected and other factors. For students living in a postgraduate residence, around HK\$120,000 per year is required to cover food, lodging and general living expenses excluding tuition fees. Fees and charges are likely to be revised upwards annually.

Accommodation

Postgraduate residences are available on campus or nearby and applications from overseas students are welcome. Students should contact the postgraduate residences directly for enquiries on vacancies and booking. Competition for places, however, is keen. For those unable to secure a residential place on campus, rental accommodation in the open market is also available. Admission to the University does not provide any guarantee of accommodation, which remains the responsibility of each student. It is therefore in the interest of overseas students to make definite arrangements for accommodation before arrival. Overseas students are advised to consult the Office of Student Affairs on accommodation matters.

Information on accommodation options for non-local students is available from the OSA website: <http://www.hku.hk/osa>.

Visa

All non-local students must obtain a visa in order to study in Hong Kong. The Hong Kong Immigration Department issues student visas to applicants enrolling in a FULL-TIME course in the University.

Students from overseas

Application should be made at least two months in advance at the local Chinese Embassy. All applicants for a student visa to HKSAR are required to have a local sponsor. Students coming to HKU should request the Office of Student Affairs to be the visa sponsor by completing the visa sponsorship application form obtainable from the Office of Student Affairs. A cost recovery handling charge is required. The visa sponsorship application form can also be downloaded from OSA website. If students find difficulty in submitting their visa applications to the Chinese Embassy, they should contact the Office of Student Affairs for advice and assistance.

PRC Students

PRC students (with the exception of those with overseas permanent residency) must submit the student visa application and visa sponsorship application via the Office of Student Affairs. For details on the visa application procedures, please visit OSA website: <http://www.hku.hk/osa>.

All non-Hong Kong students who intend to stay for more than 6 months should obtain a Hong Kong Identity Card after their arrival.

Other Information

Please check our website <http://www.hku.hk/supportu>. The following booklets are also available for overseas students:

- (a) Preparatory Guide for International Students - for potential applicants;
- (b) Guide for Newcomers - for collection by students on arrival.

Copies of these booklets can be viewed on-line and are available from the Office of Student Affairs, Rm. 401 Mèng Wah Complex. (Fax: (852) 2546 0184, Email: osa@www.hku.hk)

Awards and Financial Assistance

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Postgraduate Studentships

The purpose of Postgraduate Studentships is to provide selected students with financial assistance in the form of a scholarship to study full-time for the degrees of MPhil or PhD during the prescribed periods of study.

All selected full-time MPhil and PhD students who hold a first degree at second class honours first division (or equivalent) or above shall receive Postgraduate Studentships. Studentships are tenable on an annual basis and are renewable upon satisfactory academic progress having been made and the availability of funding. A Postgraduate Studentship holder may be required to undertake, under supervision, duties which carry educational benefits for the holder, as prescribed by the Head of the Department, Unit, Centre, School or Institute in which the holder is registered. The amount of such work shall not exceed 100 hours in any full twelve-month period (or pro rata if the period is less than twelve months). The undertaking of this work forms a part of the Studentship contract covered by the value of the Studentship, and no other payment for these hours of work may be made to a Studentship holder.

The basic stipend amount is presently (for the 2003-2004 academic year) HK\$13,000 per month. A higher rate may be paid, at the discretion of the department in which the studentship holder is registered. In return, the studentship holder may be required to work additional hours, up to a maximum of a further 150 hours per annum. The annual value of the Studentships shall be determined by the University from time to time. There are at present 4 levels of stipend, ranging from HK\$13,000 to HK\$15,100 per month.

The work undertaken in this capacity shall be relevant to the holder's research training, beneficial to his/her studies and subject to the concurrence of the supervisor(s). The holder shall not otherwise undertake any employment either within or outside the University during tenure of the Studentship. The nature of the duties shall normally be:

- (a) assistance with research;
- (b) assistance with scheduled laboratory, studio and fieldwork classes and with tutorials;
- (c) assistance with the preparation of materials for scheduled classes;
- (d) assistance with marking practical notebooks and answers from exercise classes; and
- (e) assistance with invigilation of University degree examinations.

Further details of the Postgraduate Studentship regulations are available on the website: <http://hku.hk/gradsch/pdfs/PGS-regulations-225-601.PDF>.

Academic Awards

The University administers a number of scholarships which are awarded to postgraduate students for outstanding academic achievements. Applications for postgraduate scholarships will be invited from eligible students at various times throughout the year, and invitations for applications will be posted around the campus to notify students when such opportunities arise.

Government Grants and Loans

Students admitted to a UGC funded full-time curriculum who need financial assistance for their studies at the University may apply to the means-tested loans and grants scheme administered by the Student Financial Assistance Agency. To qualify for the assistance, a student must have the right of abode in Hong Kong or have resided in Hong Kong continuously for three years prior to admission to the University. (The latter does not cover students staying in Hong Kong holding student visas) The value of their Postgraduate Studentships will be counted as their income. To apply for assistance, students should

- (a) obtain an application form from the Office of Student Affairs, or the Student Financial Assistance Agency, 11/F & 12/F, Cheung Sha Wan Government Offices, 303 Cheung Sha Wan Road, Kowloon; and
- (b) submit the completed form within one month following the commencement of the course to the Office of Student Affairs.

A non-means tested loan scheme is also available for application by both full-time and part-time students who meet the residency requirements. Application forms are also obtainable at the Office of Student Affairs.

University Financial Assistance

University funds are in general used to supplement government grants and loans. A limited number of means-tested bursaries and loans are available to local Full-time students who are in financial need. However, these are only very small assistance and should not be seen as an alternative to Government support. The value of students' Postgraduate Studentships will also be counted in the assessment of their needs. Applications are invited in early September each year. Those who are in urgent financial hardship may however apply for emergency assistance any time during the year. For enquiries, please contact the Office of Student Affairs.

Faculty of Architecture

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The University of Hong Kong started to provide professional education in architecture in 1950. Since then, the teaching of architecture has grown steadily and diversified to include, in 1975, a building programme, which later developed into the current surveying programme. As part of this continuing development, the Faculty of Architecture was established in 1984 from the former School of Architecture to provide professional education in both architecture and surveying.

The Faculty of Architecture now has two departments, the Department of Architecture and the Department of Real Estate and Construction. It is well equipped with its own studio facilities and laboratories, computer facilities, workshops, photographic and reprographic units.

Research in Architecture

The Department offers professionally oriented degree courses in architecture, urban design, landscape architecture and conservation. A new master's course in interdisciplinary design management (MIDM) is being offered in 2003-04 for the first time.

The Department proposes to focus a major share of its research efforts in the medium term on the three fields of research listed below, with a view to gradually developing international level expertise.

- (a) History and theory of Architecture, including conservation studies;
- (b) Information Technology (IT) applications in architectural design and project administration; and
- (c) Sustainable building and urban design issues.

There are currently over 30 students registered for higher research degrees in architecture. A brief statement of research interests in about 1,000 words is required from applicants.

In 1999, the Departmental Research Postgraduate Committee (DRPC) was set up in accordance with university-wide procedures. From 2000-01, the Department has been offering a compulsory course on research methodology: Seminars for research students (2 units). The Department's Homepage contains details of research topics of current students, as well as research interests and publications of potential supervisors and other relevant information.

Research in Real Estate and Construction

The real estate and construction industries have been major components in Hong Kong's economy since the 1970's. With the continuing commitment from the government as well as investment from international consortia in the various infrastructure and development projects, demand for more sophisticated real estate and construction services is rapidly increasing.

Hong Kong is the hub of Southern China as well as a major contributor to economy in the wider East Asian region. With a rich background, a well-established socio-economic framework and a new identity as a Special Administrative Region in a growing Chinese economy, Hong Kong will benefit from interchange of professional experiences.

As the economy develops the real estate and construction industries are becoming increasingly intertwined with other sectors of the economy, particularly in finance sources and in formative technology development. Graduates with backgrounds in other sectors of the economy are finding it increasingly important to equip themselves with value-added knowledge in the real estate and construction field. For this reason, the department offers multi-disciplinary postgraduate programmes with highly innovative teaching methods, providing candidates with the necessary versatility to face new challenges in a changing environment for the new century. In addition, the Department of Real Estate and Construction offers a broad coverage of research opportunities with comprehensive coverage across the land conversion process.

Department of Architecture

<http://arch.hku.hk>

Major Research Areas

Architectural theory, with particular attention to traditional Chinese vernacular architecture; design of buildings for the community; architectural heritage and conservation of Guangdong, Hong Kong and Macau; computers in design, including collaborative design, computer-aided design, multimedia in design, virtual reality; construction and technology, acoustics, energy efficient design, solar energy, fire safety; high density urban development; history of architecture, particularly the architecture and urban development of coastal cities in China; housing, with particular attention to high density and public housing; landscape architecture; professional practice, process and management; urban design; culture and cities.

Acting Postgraduate Admissions Advisor (from 1 August - 7 December 2003)

Prof. D.P.Y. Lung Tel: 2859 2131 Fax: 2559 6484 Email: dpylung@hkucc.hku.hk

Postgraduate Admissions Advisor (from 8 December 2003 onwards)

Dr. D.C.K. Hui Tel: 2859 2813 Fax: 2559 6484 Email: hui@arch.hku.hk

Department of Real Estate & Construction

<http://hkusury2.hku.hk>

Major Research Areas

Urban land economics; real estate investment; real estate finance; regional economics; law and the real estate industry; structure of real estate and construction industries in South East Asia (particularly the People's Republic of China); international investment flows in real estate and construction; construction economics; project, property and maintenance management; safety on construction sites; construction information management; cultural studies in real estate and construction

Departmental Requirement

Presentation of a paper to Faculty staff and research students.

Postgraduate Admissions Advisor

Dr. Frederik Pretorius Tel: 2859 2146 Fax: 2559 9457 Email: reco@hkucc.hku.hk

Faculty of Arts

<http://facarts.hku.hk/homepage/>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The Faculty of Arts was founded in 1912 and is one of the oldest and largest faculties in the University. It presently consists of ten departments: Chinese, Comparative Literature, English, Fine Arts, Geography, History, Japanese Studies, Linguistics, Music and Philosophy.

Postgraduate Studies by Research (MPhil/PhD)

Departments are able to offer supervision in a wide range of areas of study, and details of the main areas are given later in this section. In 2003 the Faculty had approximately 300 registered research postgraduate students.

Department of Chinese

<http://www.hku.hk/chinese>

Major Research Areas

Chinese language: Chinese etymology; Chinese phonology; modern Chinese language.

Chinese literature: Chinese prose, poetry, fiction, xiqu, and literary criticism; modern and contemporary Chinese literature.

Chinese history: dynastic, social and economic, and intellectual history of China; history of Chinese science and technology, legal system, political institutions, examination and education systems, and historiography.

Chinese culture: traditional and twentieth-century Chinese culture; Christianity and Chinese culture; Chinese civilization.

Chinese thought: Confucianism; Daoism; Buddhism; neo-Confucianism.

Translation: translation theory; translation criticism; linguistics and translation; culture and translation; translation for law, media, fine arts and science.

Departmental Requirement

Students are required to present a research seminar.

Postgraduate Admissions Advisor

Dr. K.V.S. Shang Tel: 2859 7923 Fax: 2858 1334 Email: kvsshang@hkucc.hku.hk

Department of Comparative Literature

<http://www.hku.hk/complit>

Major Research Areas

Topics in comparative literature and cultural studies

Anthropology of culture; architectural theory and criticism; avantgardes in literature, film, architecture and the visual arts; Baroque literature and poetics; Chinese Modernism; colonialism and postcolonialism; comparative poetics; comparative studies in Chinese/English poetry; critiques of space; cultural identity and representation; dance theory; Dante; East-West comparative literary/cultural relations; European cinemas; feminism and psychoanalytic approaches to literature, religion, myth and literature; feminist cultural studies; feminist film theory; feminist and postcolonial theories; film studies and film language; French philosophy and theory; gender and sexuality; German philosophy and theory; Hong Kong

cinema, culture and literature; interactive technology; Kafka and expressionism; literary and cultural theory/philosophy; Chinese, British, European and American literature of all periods; literature and film/myth/sociology; metaphysical poetry; modernism; multimedia studies; narrative theory; new media technologies and aesthetics; nineteenth-century studies; opera and cultural studies; performance studies; popular culture; postmodernism; problems of aesthetics; psychoanalytic theory; reception studies; semiotics; surrealism; European culture from the early modern period to the present; technology and the body; theatre; theories of representation; theories of romanticism and postmodernism; contemporary visual art; third world cinemas; violence and space; virtual reality and cyberspace; Walter Benjamin; women's writing and women's studies.

Departmental Requirement

Presentation of seminars.

Postgraduate Admissions Advisor

Dr. M.O.Y. Ha Tel: 2859 7933 Fax: 2857 7955 Email: moyha@hkucc.hku.hk

Department of English

<http://www.hku.hk/english>

Major Research Areas

English language and linguistics

English linguistics; semantics and pragmatics; discourse analysis; sociolinguistics; world Englishes; English in Hong Kong and Asia; critical linguistics; language and politics; language and the law; history of linguistics; orientalism and linguistics; literary linguistics.

Literary studies in English

Renaissance literature and Shakespeare; romanticism; the English novel; modernism; postmodernism; postcolonial literatures; literary history; colonial discourse analysis; western images and ideas of China; feminist approaches to literature; American literature; Asian-American studies; contemporary British fiction; critical theory; literature and film; travel writing; creative writing.

Departmental Requirement

Students are required to present a research seminar.

Postgraduate Admissions Advisor

Dr. Q. S. Tong Tel: 2859 1923 Fax: 2559 7139 Email: qstong@hkusua.hku.hk

Department of Fine Arts

<http://www.fa.hku.hk/>

Major Research Areas

Theory of Chinese art; history of Chinese painting and calligraphy; Japanese ink painting; Japanese medieval art; Japanese garden art; European art of the Renaissance and Baroque periods; nineteenth and twentieth century European and American art history and theory; Hong Kong art; women's studies and the visual arts; art and colonial/postcolonial culture.

Departmental Requirement

Presentation of seminar.

Postgraduate Admissions Advisor

Dr. D.J. Clarke Tel: 2859 2613 Fax: 2548 0987 Email: finearts@hkusua.hku.hk

Department of Geography

<http://geog.hku.hk/>

Major Research Areas

Climatology and hazards

Applied climatology: aspects of urban climate, human bioclimate, tropical climatology, agricultural climatology in the tropics; atmospheric and hydrologic hazards; applications of remote sensing to climatology and hazard management; land use and development in south China.

Contact Person Dr. W.J. Kyle Tel: 2859 7022 Fax: 2559 8994 Email: billkyle@hkucc.hku.hk

Environmental science and management

Environmental modelling (air and water quality, time-series analysis and forecasting) and management (environmental impact assessment, nature conservation); sustainable development (indicators and assessment).

Contact Person Dr. C.N. Ng Tel: 2859 7025 Fax: 2559 8994 Email: cnng@hkucc.hku.hk

Geographical information systems and cartography

Geographic information systems (principles and applications, resource management, critical area analysis); computer and analytical cartography; cartographic and digital map production; spatial analysis; quantitative methods; transport geography; tactile mapping.

Contact Person Dr. P.C. Lai Tel: 2859 2830 Fax: 2559 8994 Email: pclai@hkucc.hku.hk

Geomorphology and quaternary science

Geomorphology; environmental science and natural hazards; hydrology and hydrochemistry; quaternary science; physical environmental studies in Tibet and South and North China.

Contact Person Dr. D. Zhang Tel: 2859 7027 Fax: 2559 8994 Email: zhangd@hkucc.hku.hk

Globalization, urbanization, and cities

Globalization and E-economy on spatial change; world cities; urbanization; comparative urban structures; industrial geography; transport geography; Chinese cities; China's economy.

Contact Person Prof. V.F.S. Sit Tel: 2859 2839 Fax: 2559 8994 Email: hragvis@hkucc.hku.hk

Hydrology and sediment studies

Hydrology; applied hydrology; flood; drought; water quality (including acidity of water in the hydrologic cycle); sediment production and transport in the fluvial system.

Contact Person Dr. M.R. Peart Tel: 2859 7021 Fax: 2559 8994 Email: mrpeart@hkucc.hku.hk

Soil science and biogeography

Soil science (soil structure, micromorphology, human impacts, urban soils); biogeography (urban vegetation, arboriculture, landscape and amenity planting, afforestation, revegetation of disturbed lands, recreational impacts); urban ecology; urban environmental issues; countryside conservation.

Contact Person Prof. C.Y. Jim Tel: 2859 2835 Fax: 2559 8994 Email: hragjcy@hkucc.hku.hk

Tourism and recreation geography

Tourism and recreation geography; globalization of consumption and production; China and Asia-Pacific tourism development; visitor management and tour operation.

Contact Person Dr. Y.P. Li Tel: 2859 2837 Fax: 2559 8994 Email: liyiping@hkucc.hku.hk

Transport and economic geography, and spatial analysis

Transport geography; spatial analysis (application of GIS in analyzing spatial problems, transport and travel surveys, quantitative methods); economic geography (globalization, geography of information technology and development studies); China studies (transport system, central-local relationships, development policies and statistical system).

Contact Person Dr. B.P.Y. Loo Tel: 2859 7024 Fax: 2559 8994 Email: bpyloo@hkucc.hku.hk

Transportation geography and container port systems

Transportation geography, travel behaviour modelling; time budget/use studies; urban public transport in Hong Kong and China; container port systems.

Contact Person Dr. J.J. Wang Tel: 2859 7026 Fax: 2559 8994 Email: jwang@hkusua.hku.hk

Urban and regional development in China, and economic geography

Urban and regional development in China; land property rights in China; transnationalism and Chinese diaspora; social geography of Hong Kong; public policy and regional development; economic geography; Hong Kong-Guangdong integration.

Contact Person Dr. G.C.S. Lin Tel: 2859 7023 Fax: 2559 8994 Email: gcslin@hkucc.hku.hk

Urban and social geography, and environmentalism

Urban and social geography (urbanization, urban planning, urban environment, urban housing, urban land use); environmentalism (environmental perception, society-environment relations, environmental governance).

Contact Person Dr. Y.S.F. Lee Tel: 2859 2840 Fax: 2559 8994 Email: leey@hku.hk

WTO and economic development in China

Urban studies; regional planning; geography of finance and trade; WTO and economic development in China.

Contact Person Dr. S.X. Zhao Tel: 2859 2838 Fax: 2559 8994 Email: sxzhao@hkucc.hku.hk

Departmental Requirement

Attendance and presentation of seminars are mandatory for MPhil and PhD students.

Postgraduate Admissions Advisor

Dr. G.C.S. Lin Tel: 2859 7023 Fax: 2559 8994 Email: gcslin@hkucc.hku.hk

Department of History

<http://hkuhist2.hku.hk/history>

Major Research Areas

Modern Chinese history (politics, society, economics and foreign relations of China); business history of China, Hong Kong and Southeast Asia; urban history of Japan and Europe; modern Japanese history; Southeast Asian history; diplomatic history; early modern and modern European history; Russian history and labour movements; United States history; early modern English history, modern British history; history of youth; history of sports.

Departmental Requirement

Students are required to present a research seminar.

Postgraduate Admission Advisor

Prof. N.G. Owen Tel: 2859 2864 Fax: 2858 9755 Email: history@hkucc.hku.hk

Department of Japanese Studies

<http://www.hku.hk/japanese>

Major Research Areas

Anthropology and contemporary Japanese society; Ainu studies, minorities in Japan; applied and comparative linguistics; art and aesthetics; comparative studies of modern Chinese and Japanese literatures; diplomatic and political history; education and gender studies; Hong Kong-Japanese relations; Japanese business in Hong Kong; Japanese intellectual history; literature; popular culture; Sino-Japanese studies.

Postgraduate Admissions Advisor

Prof. K. Refsing Tel: 2859 2879/2859 8046 Fax: 2548 7399 Email: refsing@hkucc.hku.hk

Department of Linguistics

<http://www.hku.hk/linguist>

Major Research Areas

Phonetics; phonology; morphology; syntax; Lexical Functional Grammar; semantics; lexicology and lexicography; pragmatics; sociolinguistics; conversation analysis; language and literacy; computational linguistics; corpus linguistics; language typology; dialectology; comparative grammar; Chinese and English contrastive grammar; psycholinguistics; neurolinguistics; and linguistic analysis of Chinese, Cantonese, African, European and South East Asian languages

Postgraduate Admissions Advisor

Dr. A.B. Bodomo Tel: 2857 8285 Fax: 2546 4943 Email: abbodomo@hkusua.hku.hk

Department of Music

<http://www.hku.hk/music/>

Major Research Areas

Musicology

Historical, theoretical, and anthropological approaches to music research; classical, traditional, and popular idioms of various regions, particularly China and Hong Kong; other Asian cultures (particularly the Philippines); Western cultures (particularly France, Germany, Italy, the Low Countries, and North America); manuscript and source studies, performance practice, aesthetics, ethnography, and the social and cultural contexts of music.

Composition

Guidance in musical composition using a great variety of media, including voice, musical instruments of Western and Asian cultures, other acoustic and electro-acoustic instruments; specialization in computer-assisted musical creativity; exploration of various musical styles and idioms, including popular and commercial musics

Departmental Requirements

Attendance and presentation of papers at two postgraduate seminars and postgraduate reading courses. Attendance at Departmental Research Colloquia.

Postgraduate Admissions Advisor

Dr. Karl Kuegle Tel: 2241 5209 Fax: 2858 4933 Email: kuegle@hkucc.hku.hk

Department of Philosophy

<http://www.hku.hk/philodep/>

Major Research Areas

Action and the will; Aristotle; Chinese philosophy; Chinese theory of language; Chinese theory of mind; classical Confucianism; comparative philosophy; computer-assisted learning; cognitive science; Daoism; democratic theory; Descartes; epistemology and philosophy of language; ethics; history of early modern philosophy; history and philosophy of science; Hume; interpretation in the social sciences; liberal-communitarian debate; logic; Marxist philosophy; meta-ethics; Nietzsche; paradoxes; personal identity; philosophy and medicine; philosophies of human rights, language, law; literature, logic and language, mathematics, mind and cognitive science, religion, and science; phenomenology; Plato; political philosophy; pragmatism; ritual and symbolism; Rousseau; theories of justice; Wittgenstein

Postgraduate Admissions Advisor

Dr. J. Ci Tel: 2859 2796 Fax: 2559 8452 Email: jjwei@hkucc.hku.hk

Faculty of Business & Economics

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The Faculty of Business and Economics was established in January 2001 as the University's tenth faculty, embracing the School of Business and the School of Economics and Finance. The establishment of the Faculty symbolizes the University's commitment to education in these areas. Both Schools in the Faculty offer research programmes leading to the degrees of MPhil and PhD. In addition, the Faculty offers a variety of taught master programmes, including Master of Business Administration, Master of Business Administration (International), Master of Finance and Master of Economics. All these programmes are designed to provide students with a deep understanding of the key aspects of the fields of business and economics. Students are introduced to basic research tools in their fields and are expected to be able to conduct independent research relevant to their specialties. Through regular interactions with faculty members, students also acquire a broader perspective on management and economic issues of the region and beyond. The Faculty also has seven research centres, which provide a platform for students to apply theories into practice.

The Faculty also places great emphasis on network building and extends linkages with key business communities in Asia through its consulting and executive teaching projects and through its alumni.

School of Business

<http://www.business.hku.hk>

Major Research Areas

Asian/Chinese business organization and management practice

Evolution and management of firms in China's 'transitional economy' as the country progresses towards a market economy in a globalizing business world; alignment of firm resources to changing environments; organizational learning; competence development and human resource strategies; organizational behaviour of employees in China.

Contact Person Dr. Simon Lam Tel: 2859 1008 Fax: 2858 5614 Email: simonlam@business.hku.hk

Accounting and finance

Accounting: production and use of accounting information; relationship between financial information and stock prices; how forecast information is produced by security analysts and used by investors; voluntary disclosure and earnings management behaviour of corporate managers; financial accounting standards setting; external auditors' decision-making; management accounting.

Contact Person Dr. Derek Chan Tel: 2857 8357 Fax: 2858 5614 Email: derekchan@business.hku.hk

Finance: corporate finance; asset pricing theories; portfolio analysis; financial institutions; fixed-income securities; derivative securities; exotic options; international finance; risk management; capital market microstructure; Asian financial markets; econometric applications in finance.

Contact Person Prof. Eric Chang Tel: 2241 5138 Fax: 2858 5614 Email: ecchang@business.hku.hk

Corporate strategy and business environment

Economics of human resources; application of economic analysis to public policy; housing and property markets; rise of producer services; political economy of laissez faire in Hong Kong; international trade and investment; international business; economics of organization, management and strategy; organization and strategy in Chinese economy; business economics; competitiveness of Chinese economy; regional clustering and development; international competitiveness;

international competition and strategy; strategy and its execution; business processes and information; multinational enterprises in the Asia-Pacific economies

Contact Person Dr. Tao Zhigang Tel: 2857 8223 Fax: 2858 5614 Email: ztao@business.hku.hk

Marketing in the Chinese economy

High-performance firms in China: optimal level of staff localization; changing institutional environment and strategic alignment of firm resources; organizational and HR strategies in firms in China; organizational learning and development of core competencies.

Global firm operations and globalization of Chinese firms: FDI flows and their impacts on home country factors; diversification and strategies of global brands in China; globalization of Chinese firms; branding strategies.

Sociology of consumption: index of consumer sentiment; consumer aspirations; organizational buying behaviour and strategies; consumption strategies.

Contact Person Prof. David Tse Tel: 2859 1010 Fax: 2858 5614 Email: davidtse@business.hku.hk

Management Information Systems

Electronic commerce and its impact on procurement; electronic catalogs; enterprise resource planning; global electronic commerce; groupware and workflow management; hypermedia and web design; information system evaluation; information systems/technology adoption and implementation; information presentation and model visualization; IT-based supply chain management; internet navigation and information retrieval; management of technology and innovation; system development methodologies.

Contact Person Prof. Patrick Chau Tel: 2859 1025 Fax: 2858 5614 Email: pchau@business.hku.hk

School Requirement

GMAT or GRE score obtained within five years. (The GMAT and GRE codes of the University are 788 and 2482 respectively.)

Postgraduate Admissions Advisor

Dr. Yigang Pan Tel: 2857 8345 Fax: 2858 5614 Email: ypan@hkusua.hku.hk

School of Economics and Finance

<http://www.econ.hku.hk>

Major Research Areas

Asian financial institutions; China's economy; China's financial markets and institutions; econometrics; economic development; economic policy; economics of transition; economy of Hong Kong; financial economics; game theory; industrial organisation; international trade and finance; labour economics; macroeconomics; mathematical economics; monetary theory and banking; new institutional economics; political economy; price theory; public finance; transportation economics; urban economics.

Postgraduate Admissions Advisor

Dr. C. Bai	Tel: 2859 1036	Fax: 2548 1152	Email: baic@econ.hku.hk
Miss Amy Chiang	Tel: 2241 5750	Fax: 2548 1152	Email: amy@econ.hku.hk

Faculty of Dentistry

<http://www.hku.hk/dental/english/index.html>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



A key research goal of the Faculty of Dentistry is to strengthen its position as a premier centre for dental research in Southeast Asia as well as internationally. The Faculty has signed memoranda of understanding with six leading dental schools in China to have regular academic exchanges, joint research activities, and training of research students. With more than 40 full-time international academic staff, excellent top-end research facilities, and access to patients in the well-equipped Prince Philip Dental Hospital, the Faculty is recognized as the leading research center in the region in clinical oral microbiology, bone biology, dental materials, oral epidemiology and treatment of oral and maxillofacial diseases. To further this end, the Faculty is actively expanding its programmes leading to the degrees of Master of Philosophy (MPhil) and Doctor of Philosophy (PhD).

In general, research in the Faculty is conducted under the purview of four research groups:

Dental materials and technology transfer

The Dental Materials Science Laboratory has continued to extend the boundaries of knowledge in the area. The current programme includes design of artificial saliva, chemical equilibria of multiple systems of electrolytes, droplet shape, development of a mechanical testing machine for use in the field (particularly in primate nutrition studies), and turbine handpiece instrumentation.

Hard tissue biology and repair

The hard tissue research group is involved in different aspects of research in the field of bone induction. Members of the team carry out molecular, biochemical and clinical research to identify the mechanisms of bone formation and the use of growth factors, angiogenic mediators and bone matrices in bone induction. Other aspects of research include identifying growth factors regulating jaw growth, and dentine regeneration using non-collagenous proteins and chondrogenic inducing factors.

Oral health care delivery

The research activity of this group is centred on oral epidemiology (the collection of information on the status of oral health and disease in population groups where such information is lacking and is of current international interest); psychosocial aspects of oral health care (the study of perceived oral health related quality of life of individuals and satisfaction with dental care and utilization of various services); and clinical studies (examination of various outcomes resulting from the use of various oral health intervention modalities).

Soft tissue and infection

Although considerable research has been conducted on oral infections in Western countries, little is known of their prevalence and aetiopathogenesis in Asian populations. The work of this group is therefore focused on oral microbiology of compromised individuals including the HIV-infected, diabetics, the irradiated and renal transplant patients; basic and applied research on microbiological profiles and the host-parasite interactions in patients with periodontal diseases; development of appropriate therapeutic modalities in controlling periodontal diseases in Asian populations; and molecular pathogenesis of oral candidal infections.

Major Research Areas

Conservative dentistry/endodontics

Efficacy of root canal preparation techniques, mechanical properties and fatigue characteristics of root canal instruments, treatment outcomes of various form of endodontic therapy, materials for endodontic treatment, clinical and laboratory studies of restorative materials.

Contact Person Dr. G.S.P. Cheung Tel: 2859 0288 Fax: 2559 9013 Email: spcheung@hkusua.hku.hk

Dental materials science

Design and interpretation of test methods in materials science; saliva chemistry; chemical equilibrium and solution speciation computation; mechanical properties of materials; dental procedures, equipment and materials: chemistry, physics, mechanics.

Contact Person Prof. B.W. Darvell Tel: 2859 0303 Fax: 2548 9464 Email: hrdubwd@hkucc.hku.hk

Dental public health

Epidemiological, health services and behavioural research of oral health status and its determinants; clinical intervention studies on prevention and treatment of common oral health problems and diseases.

Contact Person Prof. E.C.M. Lo Tel: 2859 0292 Fax: 2858 7874 Email: hrdplcm@hkucc.hku.hk

Oral and maxillofacial surgery

Cleft lip and palate; oral malignancy; benign tumours; facial deformity; reconstructive surgery; temporomandibular joint pathology; endosseous implantology; distraction osteogenesis.

Contact Person Prof. N. Samman Tel: 2859 0268 Fax: 2559 9014 Email: nsamman@hkucc.hku.hk

Oral bio-sciences

Oral microbiology; oral pathology; cariology; oral candidal infections; HIV disease; biofilm formation and artificial mouth.

Contact Person Prof. L.P. Samaranayake Tel: 2859 0480 Fax: 2547 6133 Email: lakshman@hkucc.hku.hk

Oral rehabilitation

Implantology; polymethylmethacrylate denture base resin; fibre-reinforced dental polymers; dental handpiece performance; maxillofacial reconstruction; denture retention; dental magnets; motor control of the human jaw muscles; pathogenesis and management of temporomandibular disorders; quality of life measures in geriatric dentistry; resin-bonded bridges; patient-based assessment of fixed and removable prosthodontic treatment; glass ionomer cements.

Contact Person Prof. A.S. McMillan Tel: 2859 0305 Fax: 2858 6114 Email: annemcmillan@hku.hk

Orthodontics

Experimental studies of bone generation; growth modifications and understanding growth factors regulating jaw growth; epidemiological studies of orofacial form; clinical and experimental evaluation of orthodontic treatment approaches.

Contact Person Prof. E.U.O. Hagg Tel: 2859 0249 Fax: 2559 3803 Email: euohagg@hkusua.hku.hk

Paediatric dentistry

Epidemiological studies of early childhood caries, dental anomalies and developmental defects; cleft lip and palate; clinical studies of dental materials; laboratory and clinical studies on remineralization of enamel and bonding agents.

Contact Person Prof. N.M. King Tel: 2859 0253 Fax: 2559 3803 Email: kingnm@glink.net.hk

Periodontology

Epidemiological, behavioural and clinical research on periodontal diseases and their prevention and management; basic research of periodontal microflora and host response in the local population.

Contact Person Dr. E.F. Corbet Tel: 2859 0301 Fax: 2858 7874 Email: efcorbet@hkusua.hku.hk

Postgraduate Admissions Advisor

Prof. L.P. Samaranayake Tel: 2859 0480 Fax: 2547 6133 Email: lakshman@hkucc.hku.hk

Faculty of Education

<http://www.hku.hk/education/research/degrees.htm>

MPhil and PhD Studies at The University of Hong Kong 2004-2005

The Faculty of Education was established in 1984 and has adopted a unitary structure by merging its two former departments (Curriculum and Educational Studies and Speech and Hearing Sciences). The Physical Education and Sports Science Unit has left the Faculty to join the newly-formed Institute of Human Performance, but its degree courses will still be offered through the Faculty. The Faculty has assumed an important role in educational research and professional training in the region and internationally, and has contributed significantly to education policy and development in Hong Kong. It is a major teacher education institution, has strong expertise in policy analysis and curriculum development, and is the only institution in Hong Kong training speech therapists and audiologists for the local community.

The Faculty has about 90 full-time academic members of staff drawn from various parts of the world. In addition to performing teaching duties, academic staff are engaged in an extensive range of research which provides a focus for supervision of research degrees. Major areas of focus include comparative education, curriculum development and evaluation, education in China, language education, education psychology and special education, policy studies and leadership, speech and hearing sciences, educational technology and instructional media, and mathematics and science education. Members of the Faculty lead both international and local projects and play roles on Editorial Boards for local and international journals. Many of them also sit on different advisory committees contributing to the formulation of policies related to education in Hong Kong.

In addition to undergraduate programmes and taught postgraduate programmes, the Faculty offers supervision of research leading to the award of MPhil and PhD degrees. The Faculty places considerable emphasis on the quality of research postgraduate education with quality-assurance systems and policies operating in the admission process as well as during the period of candidature. For each applicant, an Advisory Panel is appointed to evaluate and make a recommendation concerning admission. For admitted candidates, the Advisory Panel remains in place for the length of candidature, advising on confirmation, academic performance, transfers, and issues of progress, including the evaluation of study plans where these are required. To promote collegiality among research students and encourage exchange of ideas among students and staff in enhancing research activities in the Faculty, a postgraduate research conference is organized annually. This conference attracts over 100 participants each year. In addition, to enhance communication with students, a Research Students Consultation Meeting has been set up since May 2002 and holds meetings on a monthly basis.

In order to provide a focus for research, the Faculty has established an Office of Research to deal with all matters relating to research postgraduate studies and research projects. In addition, a number of research centres have been established in the Faculty. The Comparative Education Research Centre, formed in 1994, promotes research in the field of comparative education. The Hong Kong Putonghua Education and Assessment Centre was established in 1996 as the first of such centres in Hong Kong to provide training and assessment of Putonghua to teachers in the community. The Centre for Educational Leadership provides a focal point for academics engaging in research in educational leadership. The Centre for Information Technology in Education was established in 1998 to promote research on and development of IT in education and to offer continuing professional development opportunities in this area, including the establishment of a Master of Science in Information and Technology Education programme. The Wah Ching Centre of Research on Education in China was established in 1998. Team members apply their international expertise to the study of education in China and abroad.

Division of Learning, Development and Diversity

Major Research Areas

Educational psychology

Child and adolescent development; educational psychology; developmental psychology; pre-school, primary, secondary, and higher education; school psychology; educational assessment and measurement; test theories; single

case study; statistical modeling of educational data; quantitative and qualitative research design; psychology of teaching and learning; cognition and instruction; knowledge building; higher-order thinking; giftedness; intellectual styles, personality and student learning; experiential learning; computer-supported collaborative learning; conceptual change; reading processes; student development; teacher-pupil interaction; applied behavior analysis; classroom management; social psychology of education; cross-cultural psychology; self-concept/self-esteem, stress management; gender identity development and transgender; educational psychology program design and evaluation.

Special education

Special education needs; children with learning difficulties; sensory, physical, mental, and social-emotional disabilities; learning and behavioral difficulties; developmental and multiple disabilities; early childhood, primary, secondary, and post-secondary special education; curriculum modification and adaptation; remedial teaching; literacy and numeracy; personnel preparation; comparative special education; cultural and linguistic diversity; immigrant learners; inclusive education; assistive technology; parent involvement; home-school partnership; transdisciplinary teamwork; special education program design and evaluation; gifted children with learning disabilities; gifted and disadvantaged children, role of orthographic awareness in language acquisition among dyslexic children.

Guidance and counseling

General guidance and counseling; school guidance and counseling; counseling and personal-social education; affective education; teacher stress; gender and transgender studies; special needs; inclusive education, students' and teachers' perception; human helping relationship; group guidance; career counseling; life skills development; counseling and education of gifted children; leadership and affective development for the gifted; adventure based counseling; peer counseling; teacher self development; teacher self-efficacy; counseling efficacy; guidance personnel supervision and education; school consultation; parent education; cross-cultural studies in guidance and counseling; counseling program design and evaluation; forgiveness intervention and education; student stress and adjustment; suicide prevention and intervention; bereavement and death education.

Division of Information and Technology Studies

Major Research Areas

Socio-cultural issues regarding technological practice and change; information technology implementation in schools; use of information technology across curriculum; planning and managing information technology in schools; information technology and educational leadership; computer-supported collaborative learning; information technology support for school administration; library and information services in education; knowledge management in education.

Division of Language and Literature

Major Research Areas

Chinese language education

Chinese language and literature education; language curriculum development and evaluation; general Chinese linguistics; psycholinguistics-Chinese; Chinese sociolinguistics; language testing, measurement and evaluation of Chinese; cognitive aspects of Chinese language learning; linguistic aspects of Chinese language education; computers in Chinese language teaching and learning; application of functional linguistics to teaching Chinese.

English language education

English language education (TESL, TEFL); English curriculum; classroom interaction and classroom language; second language acquisition; grammar and pedagogy; spoken and written discourse; classroom discourse analysis; sound and meaning system; text linguistics and composition theories; language assessment; language policy; medium of instruction; genre analysis; teacher language awareness.

Division of Policy, Administration and Social Sciences Education

Major Research Areas

Curriculum and assessment; curriculum implementation and evaluation studies; business studies; curriculum innovation and development; economics education; economics of education; education and national development; educational

administration and school organisation; educational change and leadership; educational philosophy; educational planning and policy analysis; environmental education; ethnic minority education; geographical education; history education; social sciences education; sociology of education; teacher thinking, beliefs and knowledge; education and professional development of teachers from initial through inservice stages; values education; women and education. Key members on the Comparative Education Centre (CERC), the Wah Ching Centre of Research on Education in China (CREC) and the Centre of Education Leadership (CEL) are located within the Division.

Division of Science, Mathematics and Computing

Major Research Areas

Science education; environmental education; physics education; chemistry education; biology education; mathematics education; statistics education; computer education; health education; substance abuse preventive education; studies of student thinking, learning and achievement in different school subjects; classroom processes (strategies of teaching and learning); use of information technology in teaching and learning; curriculum innovation and development; curriculum implementation and evaluation studies; evaluation of health education interventions; use of ICT for resources development in teaching and learning; evaluation of mentoring provision in schools; integrated curriculum development in science, health and humanities; comparative studies; teacher education; teacher thinking, beliefs and knowledge.

Division of Speech and Hearing Sciences

Major Research Areas

Speech and language studies

Children's speech and language development in Cantonese and Putonghua; communication impairment in an ageing population; comprehension in Cantonese aphasics; cross-linguistic comparisons of normal and non-normal language development; efficacy of voice therapy; instrumental voice evaluation; normal speech, language in Chinese speaking populations; acquired reading disorders in Chinese bilingual language development; speech and language disorders of Cantonese-speaking hearing-impaired children; speech and language impairment in Cantonese-speaking children and adults; speech disorders associated with cleft palate and dysarthria.

Hearing science

Acoustic analysis of speech and speech perception; perceptual segregation of simultaneous sounds.

Clinical audiology

Application and performance of hearing aids in the Hong Kong environment; development of hearing assessment tools; neonatal and infant hearing screening; childhood hearing loss in developing countries.

Faculty Requirements

- (i) PhD applicants are required to submit a 4-page Research Proposal Summary in addition to a detailed Research Proposal; while MPhil applicants are required to submit a 4-page Research Proposal Summary. (The pro-forma is obtainable from <http://www.hku.hk/education/research/degrees.htm#procedure> or Room 125, Hui Oi Chow Science Building, Office of Research, Faculty of Education.
- (ii) Presentation of a seminar for confirmation of candidature.

Postgraduate Admissions Advisors

For all Divisions except Division of Speech and Hearing Sciences

Prof. C.W. Evers, Associate Dean (Research) Tel: 2859 1901 Fax: 2547 1924 Email: cwevers@hkucc.hku.hk

Prof. D.A. Watkins Tel: 2859 1904 Fax: 2858 5649 Email: hfewda@hkucc.hku.hk

For Division of Speech and Hearing Sciences

Dr. B. McPherson Tel: 2859 0592 Fax: 2559 0060 Email: dbmcpher@hkucc.hku.hk

Faculty of Engineering

<http://engg.hku.hk>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The Faculty of Engineering is as old as the University of Hong Kong. It was one of the two founding faculties set up when the University was first established in 1912. The Faculty presently contains five core departments: Civil Engineering, Computer Science and Information Systems, Electrical and Electronic Engineering, Industrial and Manufacturing Systems Engineering, and Mechanical Engineering.

The Department of Civil Engineering is one of the oldest departments in the University. Its postgraduate studies are offered either as predominantly research degrees, leading to the degrees of Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) or primarily by coursework, leading to the degree of Master of Science (MSc) in Engineering. The Department also offers professional training courses for civil engineering graduates suitable for Continuing Professional Development for the purpose of obtaining corporate membership of the Hong Kong Institution of Engineers.

The Department of Computer Science and Information Systems was established in the Faculty of Engineering in 1988. The Department is active in both basic research in computer science and the development of computer technology. The Department offers programmes leading to MPhil and PhD degrees in Computer Science and Information Systems, a degree of MSc in Computer Science, and an MSc in Electronic Commerce and Internet Computing offered in conjunction with the Department of Electrical and Electronic Engineering.

The Department of Electrical and Electronic Engineering was established within the faculty in 1961 and assumed its current name in 1986. In addition to research degrees of Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) in various areas of forefront technologies in the EEE discipline, the Department also offers coursework degrees of MSc (Eng) in Electrical and Electronic Engineering, in Computer and Information Technology, and in Communication Engineering, covering the theories and practices of advanced topics such as biomedical engineering, computer systems, multi-media systems, networking, power systems, signal processing and wireless communications. The Department also jointly offers the MSc (Eng) degree in Building Services Engineering with other Engineering Departments in the Faculty.

The Department of Industrial and Manufacturing Systems Engineering offers research degrees programmes leading to Master of Philosophy (MPhil) and Doctor of Philosophy (PhD). Active areas of research in the Department include: logistics engineering, supply chain management, operations planning and management, facilities design, process planning and optimization, CIM, feature-based design, flexible manufacturing systems, robotic systems, inventory control, quality management, simulation, design of experiments, statistical process control, operations research, and plastics technology. The Department also offers a part-time MSc(Eng) programme in Industrial Engineering and Industrial Management to provide training for practising engineers and managers.

The Department of Mechanical Engineering was established in 1958 and official recognition of the Mechanical Engineering Degree was granted by the Institution of Mechanical Engineers in the U.K. in 1963. At the postgraduate level, the Department offers research programmes leading to MPhil and PhD degrees as well as coursework postgraduate programme leading to the MSc(Eng) degrees in Mechanical Engineering (with optional theme in "Energy and Environment") and Building Services Engineering.

Department of Civil Engineering

<http://www.hku.hk/civil/>

Major Research Areas

Construction engineering and management

Construction procurement system selection; contractor selection; design-construct; BOT and other public-private partnerships; claims and dispute management; construction durations; time extensions; supply chain management; sustainable construction; risk management; quality management; benchmarking; industry development; advanced construction technologies; technology transfers; ICT tools for construction project management; information technology; whole life cycle management of infrastructure.

Geotechnical engineering

Soil and rock mechanics; in-situ and laboratory testing; soft soil engineering; pile foundations; slope engineering; landslide prevention; landslide investigation; GIS applications to natural terrain hazards; soil dynamics; pavements.

Structural engineering

Computational mechanics; finite element and finite strip analysis; earthquake engineering; tall buildings; bridge engineering; reinforced concrete structures; concrete materials; soil-structure interaction; computer-aided design/analysis.

Traffic and transportation engineering

Transport demand modelling; continuum modelling in transport; theory of traffic flow; traffic management and control; traffic signals; network equilibrium problems; dynamic network modelling; transportation systems engineering; road safety.

Water and environmental engineering

Hydrology; environmental hydraulics/fluid mechanics; wind engineering; water quality modelling; advanced water and wastewater treatment; resource recovery; solid and hazardous waste management; coagulation and sedimentation dynamics.

Departmental Requirements

At least one seminar presentation before confirmation of candidature; publication of papers is strongly encouraged.

Postgraduate Admissions Advisor

Dr. L.G. Tham Tel: 2859-1965 Fax: 2559-5337 Email: hrectlg@hkucc.hku.hk

Department of Computer Science and Information Systems

<http://www.csis.hku.hk/>

Major Research Areas

Computer systems

Distributed and parallel computing; networks; cluster and grid computing; operating systems; computer architecture; WWW and internet.

Contact Person Dr. F.C.M. Lau Tel: 2859 2170 Fax: 2559 8447 Email: fcmlau@csis.hku.hk

Data engineering

Data mining; data warehousing; spatial database; real-time database; Internet resource discovery; semi-structured data and XML technology.

Contact Person Dr. D.W.L. Cheung Tel: 2859 7072 Fax: 2559 8447 Email: dcheung@csis.hku.hk

Human-computer interface

Computer graphics; computer vision; multimedia; speech recognition; pattern recognition; image processing; scientific computing; geometric computing.

Contact Person Dr. W. Wang Tel: 2859 7074 Fax: 2559 8447 Email: wenping@csis.hku.hk

Information systems

Information security; cryptographic systems; legal aspects of computing; e-commerce

Contact Person Dr. L.C.K. Hui Tel: 2859 2190 Fax: 2559 8447 Email: hui@csis.hku.hk

Software engineering

Software engineering; software testing and verification.

Contact Person Dr. T.H. Tse Tel: 2859 2183 Fax: 2559 8447 Email: tse@csis.hku.hk

Theory of computation

Design and analysis of algorithms; computational geometry; computational biology.

Contact Person Dr. T.W. Lam Tel: 2859 2172 Fax: 2559 8447 Email: twlam@csis.hku.hk

Departmental Requirements

A PhD candidate is required to submit a progress report and to give at least one oral presentation during each year of study after the probationary period. At least one seminar presentation should be given before submission of thesis. Research publication is strongly encouraged.

Postgraduate Admissions Advisor

Dr. W. Wang Tel: 2859 7074 Fax: 2559 8447 Email: wenping@csis.hku.hk

Department of Electrical and Electronic Engineering

<http://www.eee.hku.hk/>

Research Areas**Biomedical engineering**

EEG signal analysis; medical image processing; biomedical signals analysis using adaptive filtering; wavelets; time-frequency and artificial neural net methods.

Computer systems and networking

Internet technologies and applications; protocols for Quality of Service support; multicasting; network security; wireless networks; scheduling in broadband wireless networks; wireless LAN security; ad hoc networks; routing in all-optical networks; queueing theory with applications to performance modeling of networks and computer systems; distributed computing; mobile computing; operating systems; compilation systems; parallel computing.

Control systems and computer vision

H-infinity control system design; robotics; 3D reconstruction from 2D images; automatic visual inspection system; computer-controlled educational toys; pattern recognition; handwritten Chinese character recognition; signature verification; intelligent transportation systems; visual traffic surveillance; vehicle classification; video processing and analysis; internet live traffic video; fuzzy logic based behaviour fusion; supervised and unsupervised navigation through dynamic obstacle course.

Digital signal processing

Subband coding of digital audio signal; perceptual subband coding of image and video; modulated filter banks; multiplier-less perfect reconstruction filter banks; 3D multimedia; digital imaging technology; robust adaptive filtering; subspace tracking for blind channel identification in impulse noise environment; constrained optimization; transform algorithms.

Energy systems, power electronics and electric vehicles

Advanced electric vehicle technology; advanced high frequency switch mode power supply technology; power systems planning and design methodologies; integrated CAD environment for power systems analysis; optimization and simulation; applications of information technologies in power systems; harmonic pollution monitoring; power quality; building services.

Microelectronics and optoelectronics

Semiconductor theory and device modeling; processing of semiconductor devices; sensors; heterojunction transistors; RF modeling and circuit design; LED physics and applications; VLSI design methodologies and silicon compilation; magnetic resonance imaging engineering; superconductor electronics; semiconductor light emitting devices; optical properties of materials; organic LED and lasers; display systems and white-light source.

Wireless communications

MIMO communications systems, ultra-wide band technologies; spread spectrum techniques; multi-carrier technologies; wideband spread spectrum transceiver design; multi-media source coding and protocol design; advanced modulation techniques, mobile channel modeling and frequency planning; multi-access techniques and tele-traffic optimization; mobile/wireless networks, high-speed networks

Departmental Requirements

Candidates are required to make an oral presentation of their research proposal as part of the procedure for the confirmation of candidature. Each candidate is also required to give at least one research seminar before submission of thesis.

Postgraduate Admissions Advisor

Dr. Y.S. Hung Tel: 2859 2675 Fax: 2559 8738 Email: eeerpg@eee.hku.hk

Department of Industrial and Manufacturing Systems Engineering

<http://www.hku.hk/imse/imsehome.html>

Major Research Areas

Engineering management

Operational research; production planning and control; statistical process control; design of experiments; reliability; quality management systems; total quality management; quality performance measures.

Intelligent automation

Genetic optimization of manufacturing systems; fuzzy-logic control of manufacturing systems; virtual reality.

Logistics and supply chain management

Designs for supply chain management, supply chain inventory coordination and control; demand management and order fulfillment; order distribution; simulation; container/air cargo terminal operations planning and control; automated warehouse design; global SCM scorecard; strategic alliance; supply quality management.

Manufacturing systems design

Computer integrated manufacturing; advanced manufacturing systems; robotics; flexible assembly and knowledge-based systems; system modeling and simulation.

Manufacturing technology

CAD/CAM; mould and die design; metal cutting; mechatronics; polymer rheology and processing technology; adhesive bounded joints; nanotechnology.

Postgraduate Admissions Advisor

Prof. K.L. Mak Tel: 2859 2586 Fax: 2858 6535 Email: makkl@hkucc.hku.hk

Department of Mechanical Engineering

<http://hkumea.hku.hk/>

Major Research Areas

Design and manufacture

Geometric modeling applications; feature based systems; three-dimensional and robot vision, intelligent design systems; geometric feature recognition; rapid prototyping; layered manufacturing of multiple material objects; product development technologies; design theory and methodology; green product development; axiomatic design; concurrent engineering; evolutionary design; inventive problem solving methods, heterogeneous components design, design for product life-cycle cost; simulation modeling.

Contact Person Prof. S.T. Tan Tel: 2859 7909 Fax: 2858 5415 Email: sttan@hku.hk

Dynamics, control and robotics

Automatic detection of joint leakage; inertial sensor for parts inspection; mechatronics; model reduction; robust control system design; generalized systems; delay systems; fault detection, reliable control, artificial intelligent control; compensation for actuator nonlinearities; neurofuzzy networks for modeling and control; robotics applications; vibration.

Contact Person Dr. J. Lam Tel: 2859 2805 Fax: 2858 5415 Email: jlam@hku.hk

Materials and Solids

Microstructural origins of directional mechanical properties in rolled and annealed metals and alloys; transmission electron microscopy studies of defects; modeling of crystalline defects; structure and properties of plastics and fibre-reinforced composites; acoustic emission in unlubricated wear of metals; analysis of piezoelectric materials with defects; non-linear fracture of thin films; development of high performance finite element models; non-linear finite element analysis; fracture/damage mechanics; fatigue fracture of tubular connections; processing, structure and properties of new biomaterials; structure and properties of biological materials; tissue engineering

Contact Person Prof. A.K. Soh Tel: 2859 8061 Fax: 2858 5415 Email: aksoh@hku.hk

Natural and built environment

Air pollution; indoor air quality; environmental impact assessment; pollutant and dispersion modeling; aerosol deposition and evaporation; renewable energy and fossil fuel; building energy efficiency; mixed-mode and natural ventilation; healthy buildings; dynamic computer modelling of HVAC and BIPV systems; building automation systems; intelligent control strategies and fault detection methodologies; computational fluid dynamics; heat transfer; smoke spread and fire safety modeling.

Contact Person Dr. Y.G. Li Tel: 2859 2625 Fax: 2858 5415 Email: liy@hku.hk

Thermofluids

Turbulent boundary layer and shear layer flow interaction problems; flow past porous media; two-body interaction hydrodynamics; free-surface far wake of a self-propelled body; nonlinear water waves; innovative harbour design and research; biomedical engineering; hydrodynamic stability; vortex dynamics; thermodynamics; environmental fluid mechanics; multi-scale transport phenomena; micro-scale transport phenomena; interfacial transport phenomena; multiplicity and stability in transport phenomena; solar energy applications.

Contact Person Dr. K.W. Chow Tel: 2859 2641 Fax: 2858 5415 Email: kwchow@hkusua.hku.hk

Postgraduate Admissions Advisor

Dr. J. Lam Tel: 2859 2805 Fax: 2858 5415 Email: jlam@hku.hk

Faculty of Law

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Hong Kong offers many opportunities for interesting and important original research in the field of law. In particular, the challenges of adapting an English-based legal system to a financial and trading centre on the coast of China, and the legal aspects of the return of Hong Kong to Chinese sovereignty, have provided many features worthy of study. Yet much more legal research remains to be done. The Faculty welcomes applications from those wishing to do research under supervision for an SJD, MPhil or PhD in Law.

SJD is a degree at doctorate level, which is offered by the Faculty of Law. It is mainly intended for candidates who are not familiar with the common law system and have a limited background in research, as they will have a year of prescribed coursework to familiarize themselves with the new system before embarking on their thesis. The SJD degree is modeled on new developments in Australian universities (themselves emulating US law schools), and combines coursework with a thesis. As far as coursework is concerned, students are required to take eight courses from the LLM curriculum offered under the Department of Law, including a prescribed unit "Advanced research methodology for law". A factor in course selection must be preparation for the student's area or research.

The Faculty has about 56 teachers from around the world, including Hong Kong, Mainland China, Australia, Britain, Canada, Israel, Malaysia, New Zealand, Tanzania, and the United States. The research interests of the Faculty range over many different fields of law and over many geographical areas. Members of the Faculty are able to offer teaching and supervision in a broad variety of public law (including human rights law, public international law, constitutional law, Basic Law, privacy law, criminal law and environmental law), commercial law (including credit and security, company law, taxation and insolvency), Chinese Law (including WTO-related law, arbitration, commercial and civil law of China, securities law, criminal law, land law, intellectual property, investment law and insolvency law), intellectual property law and information technology law, and other areas such as legal theory, legal education, land law and family law.

Department of Law and Department of Professional Legal Education

<http://www.hku.hk:8400/law/>

Major Research Areas

Public law and legal theory

Constitutional law; administrative law; human rights law; Hong Kong's legal system; public international law; jurisprudence and legal theory; equality discrimination; media law.

Commercial, corporate and financial law

Commercial law; company law; corporate governance; insolvency law; financial law; securities and regulations; revenue and taxation law.

Chinese law and international trade and economic law

International trade and economic law (including areas related to China's entry into the WTO); Chinese legal system; Chinese trade and commercial law; cross-border issues.

Information technology and intellectual property law

Internet governance; internet crimes; telecommunications; intellectual property; privacy.

International arbitration and dispute settlement

Arbitration; dispute resolution and settlement.

Departmental Requirement

Presentation of seminar at confirmation and/or transfer of candidature

Postgraduate Admissions Advisor

Mr. Wilson Chow Tel: 2859 2973 Fax: 2559 5690 Email. lawpgs@hkusua.hku.hk

Faculty of Medicine

<http://www.hku.hk/facmed/index.html>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Background

The Faculty of Medicine was the first faculty to be established in the University of Hong Kong. The University, founded in 1911, took over the work of the College of Medicine, which was set up in 1887. Besides training doctors and nurses, the Faculty has always been at the forefront of medical research and development of new clinical services for the benefit of mankind.

Departments and Staff

The Faculty has 17 teaching departments which are zoned into 3 generic groups of medical sciences, surgical sciences and health sciences, each with a mix of clinical and basic science departments to enhance synergism. The Medical Sciences Group includes the Departments of Anatomy, Diagnostic Radiology, Medicine and Pharmacology; the Surgical Sciences Group the Departments of Anaesthesiology, Biochemistry, Clinical Oncology, Orthopaedic Surgery, Pathology and Surgery; and the Health Sciences Group the Departments of Community Medicine, Microbiology, Nursing Studies, Obstetrics and Gynaecology, Paediatrics and Adolescent Medicine, Physiology and Psychiatry. The Faculty also works closely with the Genome Research Centre and the University's Institute of Molecular Biology.

Currently, there are around 200 full-time teaching staff members and 306 research postgraduate students in the Faculty.

Research Activities

With a strong research base, the Faculty has made tremendous contributions to the study and treatment of various diseases. The first case of bone marrow transplantation and the first case of successful liver transplantation in Hong Kong were performed at Queen Mary Hospital. The novel technique of adult living related right lobe liver transplantation was pioneered here and has since gained worldwide popularity. The Faculty's hepatology team has gained a global reputation for its research on the hepatitis B virus and has pioneered novel treatments for the virus. More recently, researchers in the Faculty played a pivotal role in the control of the H5N1 influenza and Severe Acute Respiratory Syndrome (SARS). Our researchers are continuing to work hand-in-hand with world renowned experts, such as Dr. David Ho, to fight against SARS.

The Faculty places strong emphasis on multidisciplinary research, and has played a significant role in the establishment of the Genome Research Centre in the University. The Faculty has a significant number of collaborative projects with renowned institutions in the Mainland and overseas. The HKU-Pasteur Research Centre is a joint venture with the prestigious Institut Pasteur of France. Under the guidance of Dr. David Ho, Director of the Aaron Diamond AIDS Research Centre and affiliate of the Rockefeller University of New York, an AIDS Institute based at the Faculty, will be established. To further develop our strategic areas in infectious diseases and tradable research, the Research Centre on Emerging Infectious Diseases and Bio-Pharmaceutical Development Centre have recently been established.

The Faculty receives financial support for research activities from various sources in different forms. There are different research grants, conference grants, and fellowships offered by the University and other funding agencies, as well as donations made by professional and industrial bodies and individual benefactors. In particular, the Faculty has continued to achieve outstanding results in the annual Competitive Earmarked Research Grants exercise of the Research Grants Council, securing HK\$46.07 million in 2002/03 and HK\$53.09 million in 2003/04.

Research Postgraduate Programmes

The Faculty of Medicine shares with other Faculties in the University the common goals of imparting knowledge to students through research. Every department in this Faculty therefore actively participates in the training of research postgraduate students for the MPhil, PhD, MD and MS degrees.

Academic staff members in the Faculty undertake a wide spectrum of research, from frontier basic medical science research to cutting edge clinical research. They also supervise a large number of research postgraduate students coming from local and overseas institutions. Clinical departments conduct and supervise research either in laboratories or in clinical settings, and research postgraduate students of the Faculty enjoy the benefits of working in state-of-the-art laboratories.

The Faculty has been attracting high calibre candidates to enroll in its research postgraduate programmes. The programmes are not only popular with medical graduates, but also graduates in biological, biomedical, and health sciences. Graduates in physical sciences, engineering, computer sciences engineering, and social sciences are also welcome to apply.

Further details on research postgraduate studies and the major research areas of the Faculty can be found at www.hku.hk/facmed/postg/ and www.hku.hk/facmed/research/ respectively

Department of Anaesthesiology

<http://www.hku.hk/anaesthe>

Major Research Areas

Pharmacology of intravenous anaesthetic drugs

Pharmacology of new intravenous anaesthetics (particularly propofol and remifentanyl); pharmacokinetic modeling; patient-controlled and target-controlled infusion; ethnic variation in pharmacokinetics and pharmacodynamics; pharmacokinetic variations in various disease states; dose response characteristics.

Contact Person Dr. M. Irwin Tel: 2855 3303 Fax: 2855 1654 Email: mgirwin@hkucc.hku.hk

Depth of anaesthesia monitoring

Application of new anaesthetic depth monitors such as bispectral index (BIS) and brainstem auditory evoked potential (BAEP) monitoring; effect of anaesthetic agents on these monitors; use of these monitors to guide administration of anaesthetics.

Contact Person Dr. M. Irwin Tel: 2855 3303 Fax: 2855 1654 Email: mgirwin@hkucc.hku.hk

Perioperative haemostatic problems

Effect of various anaesthetic agents on haemostasis; value of bedside haemostatic monitors such as thrombelastography and platelet function analysers; effect of haemodilution on coagulation.

Contact Person Dr. K.F. Ng Tel: 2855 3303 Fax: 2855 1654 Email: jkfng@hkucc.hku.hk

Sedation in dental anaesthesia

Safety of intravenous sedation; monitoring of depth of sedation; pharmacology of sedative drugs.

Contact Person Dr. C. Rodrigo Tel: 2855 3303 Fax: 2855 1654 Email: rodrigo@hkusua.hku.hk

Postgraduate Admissions Advisor

Dr. K.F. Ng Tel: 2855 3303 Fax: 2855 1654 Email: jkfng@hkucc.hku.hk

Department of Anatomy

<http://www.hku.hk/anatomy>

Major Research Areas

Molecule anatomy

Structure and function of prion, β -amyloid peptide, α -synuclein, and apoE4 molecules in the amyloidogenesis or mechanism in prion diseases, Alzheimer's disease, Parkinsonism, and diabetic neuropathy and motoneuron diseases; in silico, in vitro, in vivo, and clinical trial studies of efficacy of novel or new potential drugs in preventing neuron death via control of signal transduction, or in differentiating cancer cells via control of signal transduction.

Contact Person Dr. R. Chau Tel: 2819 9101 Email: chaurmw@hkucc.hku.hk

Feeding studies

Oral function analysis of food texture (using engineering/materials science methods); sensory cues used by primates to find foods.

Contact Person Prof. P. Lucas Tel: 2819 9172 Email: pwlucas@hkucc.hku.hk

Cancer

Cancer cell proliferation and progression; telomere function; regulation of telomerase expression; cellular signaling of oncogenes and tumour suppressor genes; molecular genetics of nasopharyngeal carcinoma and esophageal carcinoma; mechanisms of Prostatic and breast carcinogenesis; mechanism of cell immortalization and malignant transformation.

Contact Person Prof. George S.W. Tsao Tel: 2819 9227 Email: gswtsao@hkucc.hku.hk

Endocrinology

Topographic relationships between hormone-secreting cells and cytokine-producing cells in the adenohipophysis; roles of testosterone and oestrogens in prostate and breast carcinogenesis; roles of nitric oxide in the functional regulation of hypothalamic-pituitary system in both physiological and pathological conditions.

Contact Person Prof. Y.C. Wong Tel: 2819 9226 Email: ywong@hkucc.hku.hk

Molecular medicine

Role of nitric oxide in acute and chronic liver and lung injury; hepatic expression of hypoxic inducible factor-1 α (HIF-1 α) and its downstream genes in chronic liver hypoxia; signaling pathways of inflammation and oxidative stress in liver and lung injury; role of cyclooxygenase in liver and lung injury.

Contact Person Dr. George Tipoe Tel: 2819 9185 Email: tgeorge@hkucc.hku.hk

Neuroscience

Distribution and function of regulatory peptides and neuropeptides in the peripheral nervous system; investigation of molecular signaling pathways leading to neuronal death and apoptosis in neurodegenerative disorders (including Alzheimer's disease and glaucoma); neuroprotection and neuroregeneration of the retinal ganglion cells in adult mammals; morphology and functions of vertebrate nervous system during normal development; search for cure for paralysis associated with spinal cord injury and other CNS diseases; how neurotrophic factors and cell adhesion molecules influence neuronal survival and axonal outgrowth during development and after injury of the nervous system; molecular and cellular interactions between neurons and glial cells.

Contact Persons Dr. H. Yip Tel: 2819 9294 Email: hkyip@hku.hk
Dr. W.T. Wu Tel: 2819 9187 Email: wtwu@hkucc.hku.hk

Reproduction

Effects of male accessory sex gland secretion on early embryonic development in golden hamsters (particularly cascade of events in oocyte activation and signal transduction during fertilization); molecular mechanisms involved in ovarian failure in galactosemic rat; role of leptin in pregnancy.

Contact Person Dr. W.S. O Tel: 2819 9238 Email: owaisum@hkucc.hku.hk

Traditional Chinese medicine

Effect of various types of TCM on neuroprotection and neuroregeneration of CNS neurons (including eye and spinal cord neurons); mechanisms of antioxidant properties of green tea polyphenols on protection of the liver from carbon tetrachloride toxicity; studies of Chinese herbs that promote blood flow and/or enhance immune response in the treatment of glaucoma and spinal cord trauma.

Contact Person Prof. K.F. So Tel: 2819 9216 Email: hmaskf@hkucc.hku.hk

Postgraduate Admissions Advisor

Dr. W.S. O Tel: 2819 9238 Fax: 2817 0857 Email: owaisum@hkucc.hku.hk

Department of Biochemistry

<http://www.hku.hk/biochem/>

Major Research Areas

Applied bioinformatics

In silico analysis and prediction of gene regulation; protein structure modeling and analysis; development of methods for the presentation and analysis of sequence families; protein flexibility.

Cell cycle regulation and cancer

Regulation of cell cycle progression; control of growth and survival of cancerous cells; altered glycosylation in tumour progression.

Functional genetics

Determination and analysis of gene function by gene targeting ('knock-out') technology.

Glycobiology

Glycobiology of inflammation and tissue damage; mechanisms of kidney stone formation.

Molecular biology of the extracellular matrix

Regulation of chondrocyte differentiation and gene expression; identification of transcription factors and their target genes important for cartilage formation; genetic factors for the regulation of bone growth and healing; transgenic mouse models of inherited connective tissue diseases in humans; regulation of matrix assembly in cartilage and bone.

Molecular biology of intracellular transport

Intracellular transport processes: study of the interaction between actin and microtubule networks using mice with conditional mutations in genes coding for unconventional myosins and ubiquitously expressed kinesin.

Molecular developmental biology

Genes involved in early mammalian development, tissue regeneration and skeletal development; analysis of regulation of homeobox and Sox gene expression and function; inner ear development.

Molecular diagnostics

Development of fast methods for nucleic acid-based diagnostics.

Neurobiochemistry

Developmental biology of the nervous system; nerve cell membrane functions; role of proteoglycans in neuronal growth and regeneration; hearing and balance defects.

Molecular structural biology

Three-dimensional crystallographic determination and detailed biochemical and enzymological analyses of proteins and modelling to elucidate the molecular basis of disease.

Reproductive biochemistry

Biochemical studies of male sex gland components, their interaction with sperm, and their effect on embryogenesis.

Signalling mechanisms

Receptor coupling mechanisms of cardiac kappa-opioids; gangliosides as multifunctional biomodulators in signal transduction; structure-function relationship of ganglioside-modulated protein kinases; signaling pathways in cellular stress responses.

Transgenic technology

Production of therapeutic proteins in transgenic animals; cell and gene-based therapy in animal models.

Departmental Requirements

- 1) Annual seminar presentation on research progress.
- 2) Written presentation of a literature review in the first year.
- 3) Written progress reports (twice annually).
- 4) Active participation in weekly journal club and annual scientific retreat.
- 5) Regular attendance at research seminars.

Research students are encouraged to broaden their knowledge and skills by actively participating in extra-departmental courses/workshops/symposia/conferences.

Postgraduate Admissions Advisor

Dr. Mai-har Sham Tel: 2819 9195 Fax: 2855 1254 Email: biochem@hkusua.hku.hk

Department of Clinical Oncology

<http://www.hku.hk/oncology>

Major Research Areas

Clinical research

New radiotherapy techniques including the use of 3-dimensional computer planning systems; stereotactic radiotherapy and conformal radiotherapy; nasopharyngeal carcinoma, especially its relationship with the Epstein Barr virus; multimodality treatment aimed at improving control and minimizing side effects; multimodality treatment of gonadal and extragonadal germ cell tumours, colorectal, oesophageal cancer, breast cancer, and thyroid cancer, and elucidation of related prognostic factors.

Identification of cancer-related genes

Elucidation of the tumorigenesis process in hepatocellular carcinoma (HCC), nasopharyngeal carcinoma (NPC), colorectal cancer, esophageal cancer, ovarian cancer, and lung cancer, through characterization of isolated oncogenes or tumour suppressor genes with recently-developed techniques such as comparative genomic hybridization (CGH), tissue microarray, genomic DNA microarray, multi-color fluorescence in situ hybridization (mFISH), proteomics, chromosome microdissection, and cDNA subtraction.

Postgraduate Admissions Advisors

Dr. Dora Kwong Tel: 2859 0458 Fax: 2872 6426 Email: dlwkwong@hkucc.hku.hk

Dr. Xin-yuan Guan Tel: 2819 2888 Fax: 2816 9126 Email: xyguan@hkucc.hku.hk

Department of Community Medicine

<http://www.hku.hk/cmd/index.htm>

Major Research Areas

Epidemiology and public health

Epidemiology of cancer; cardiovascular and respiratory diseases and risk factors; disease prevention and screening; lifestyle and molecular epidemiology; occupational and environmental health; adolescent health; infectious disease epidemiology and public response.

Contact Person Prof. T.H. Lam Tel: 2819 9287 Fax: 2855 9528 Email: hmr1th@hkucc.hku.hk

Biostatistics and computing

Statistical modelling; mortality and hospital admissions studies; secular trends; seasonality and geographical variations in health studies; health care needs estimation; air pollution and health studies; socioeconomic, environmental and genetic studies; influenza epidemic studies.

Contact Person Dr. C.M. Wong Tel: 2819 9109 Fax: 2855 9528 Email: hmrwcm@hkucc.hku.hk

Health behaviour and psycho-oncology

Mental health, depression, suicide, eating disorder; psycho-oncology; psycho-cardiology; disability and rehabilitation; elderly health care need and utilization, inequality and perceived economic conditions.

Contact Person Dr. R. Fielding Tel: 2819 9288 Fax: 2855 9528 Email: fielding@hkusua.hku.hk

Health services research, health policy and economics

Health services research; evidence based medicine; clinical decision analysis; health informatics; health care financing, national and domestic health accounts.

Contact Person Dr. S.M. McGhee Tel: 2819 9193 Fax: 2855 9528 Email: smmcghee@hkucc.hku.hk

Tobacco control

Epidemiology of smoking related disorders; prevalence and factors of smoking; passive smoking; policy development; tobacco industry strategies; public opinion surveys; smoking cessation and adherence to therapy; smoke-free places; evaluation; youth and women smoking.

Contact Person Prof. A.J. Hedley Tel: 2819 9282 Fax: 2855 9528 Email: commed@hkucc.hku.hk

Postgraduate Admissions Advisor

Dr. R. Fielding Tel: 2819 9288 Fax: 2855 9528 Email: fielding@hkusua.hku.hk

Department of Diagnostic Radiology

<http://www.hku.hk/diaradio>

Major Research Areas**Thoracic radiology**

High resolution computed tomography (HRCT), quantitative CT and 3D lung volumetry in the assessment of lung diseases.

Hepatobiliary and gastrointestinal radiology

Transcatheter arterial treatment and imaging of hepatocellular carcinoma.

Paediatric radiology

Neuroimaging, including applications of functional imaging techniques, imaging of thalassaemia; paediatric and adult oncologic imaging.

Postgraduate Admissions Advisor

Dr. P.L. Khong Tel: 2855 3307 Fax: 2855 1642 Email: plkhong@hkucc.hku.hk

Department of Medicine

<http://www.hku.hk/medicine>

Major Research Areas**Cardiology**

Coronary heart disease: prevention and percutaneous revascularisation of stable ischaemic syndromes; epidemiology and treatment of acute coronary syndromes, and platelet resistance.

Cardiac pacing: new developments in pacing therapy for treatment of heart failure and cardiac arrhythmia.

Cardiac arrhythmia: innovative energy sources for catheter ablation, transvenous defibrillation and implantable device for treatment of atrial fibrillation; patch clamp study on ionic channels in atrial fibrillation and heart failure related arrhythmogenic potential.

Heart failure: hormonal changes and animal models of heart failure; cardiac resynchronization therapy.

Hypertension: left ventricular hypertrophy regression and salt balance.

Angiogenesis and cell repair: cell therapy to create new vessels and myocardium in humans and large animals.

Cardiac muscle engineering: gene knock-out study on differentiation of myocytes into cardiac myocytes.

Contact Person Dr. H.F. Tse Tel: 2855 4694 Fax: 2818 6304 Email: hftse@hku.hk

Clinical pharmacology

Cardiovascular risk factors in the community; genetic and environmental factors causing hypertension; role of peptide hormones in control of cardiovascular function; assessment of benefit and/or harm attributable to an intervention; meta-analysis of clinical trials; development, evaluation and implementation of treatment guidelines; audit, survey and analysis of drug utilisation, including antibiotics, antihypertensive and lipid lowering drugs; analysis of cost-effectiveness as applied to drug usage; effect of traditional Chinese medicine as therapy; oral arsenic for treatment of malignant disorders.

Contact Person Dr. B.M.Y. Cheung Tel: 2855 4049 Fax: 2904 9443 Email: mycheung@hku.hk

Dermatology

Use of DOPA in enhancing the clinical outcome of laser surgery for melanocytic nevi; use of laser and intense pulsed light source for non-ablative skin rejuvenation in Asians.

Contact Person Dr. H.H.L.Chan Tel: 2855 3603 Fax: 2818 6474 Email: hhlchan@hku.hk

Endocrinology and metabolism

Molecular genetics and pathogenesis of atherosclerosis, diabetes and diabetic complications; clinical and basic studies on obesity and adipocyte-derived hormones; clinical studies on growth hormone excess and deficiency; pathogenesis and management of autoimmune thyroid disease; genetics and environmental determinants of osteoporosis; linkage analysis of low bone mass.

Contact Person Prof. K.S.L. Lam Tel: 2855 4769 Fax: 2816 2187 Email: ksslam@hku.hk

Family Medicine

Health-related quality of life (HRQOL): validation and standardization of assessment instruments as an outcome measure.

Cross-cultural research: cross-cultural validation and adaptation of HRQOL measures.

Qualitative research: use of qualitative methods in community health research.

Primary care: management of upper respiratory tract infections by family doctors in Hong Kong.

Medical education: undergraduate and postgraduate medical education research with a combined qualitative and quantitative approach.

Contact Person Dr. C.L.K. Lam Tel: 2578 5651 Fax: 2814 7475 Email: cklam@hku.hk

Gastroenterology and hepatology

Helicobacter pylori: disease pathogenesis, molecular microbiology, carcinogenesis.

Stomach and colon cancer: signal transduction and apoptosis pathways, chemoprevention, clinical trials.

Functional GI disorders: dyspepsia, gastro-esophageal reflux diseases, non-cardiac chest pain, constipation.

Gene delivery system and new drug development in treatment of stomach and colon cancer

Hepatitis B virus: molecular virology, associated mutations, and natural progression of related diseases in humans.

Contact Person Prof. C.L. Lai Tel: 2855 4477 Fax: 2816 2863 Email: hmelcl@hku.hk

Geriatrics

Dementia: early detection of Alzheimer's disease (AD), genetic studies in familial Alzheimer's diseases and late onset AD, biochemical bio-markers in the diagnosis of AD, the roles of sex hormones and growth hormone in AD, use of neuropsychological tests and magnetic resonance imaging (MRI) in mild cognitive impairment and AD.

Contact Person Dr. L.W. Chu Tel: 2855 3315 Fax: 2974 1171 Email: lwchu@hku.hk

Haematological oncology

Clinical protocols for treatment of leukaemia and lymphomas; detection of minimal residual disease and molecular mechanisms in haematologic malignancy; clinical protocols for bone marrow transplantation; molecular genetics of hematological malignancies; comparative genomic hybridization in haematological malignancies and other solid tumours.

Contact Person Prof. Y.L. Kwong Tel: 2855 5859 Fax: 2974 1165 Email: ykwong@hku.hk

Medical physics

Electron paramagnetic resonance spectroscopy measurement of nitric oxide (NO), superoxide, hydroxyl, lipid free radicals in animal organs in pathophysiological states after various medicine treatments; chemiluminescence measurement of NO in blood of patients; in vivo measurement of NO using microsensor and development of other microsensors; study of pathogenesis using computerized graphic protein-protein interaction; human brain waves in pathophysiological conditions; study of cholesterol trafficking under oxidative stress in cells; measurement of intra- and extra-cellular oxygen content in cells; development of anti-aging herbal medicine; development of new algorithms for identification of cardiac and other electrical signals.

Contact Person Prof. P.C.W. Fung Tel: 2855 3603 Fax: 2818 6474 Email: hrrspfcw@hku.hk

Molecular medicine

Development of novel diagnostic techniques (including non-invasive prenatal diagnosis and pre-implantation diagnosis) for common genetic diseases such as thalassaemias, haemophilias, Duchenne muscular dystrophy, spinal muscular atrophy and Huntington's disease; genome-wide scan with microsatellite markers for linkage of new disease genes; development of DNA microarray technology to diagnose and elucidate the molecular pathology of genetic diseases and cancers.

Contact Person Prof. V.N.Y. Chan Tel: 2855 4477 Fax: 2816 2863 Email: vnychan@hku.hk

Nephrology

Immuno-pathogenesis and treatment of glomerulonephritis with focus on IgA nephropathy and lupus nephritis and renal transplant rejection; clinical, pathological, and virological features of hepatitis B and hepatitis C virus infection in patients on dialysis or after renal transplantation; human glomerular mesangial cell pathophysiology; advances in peritoneal dialysis therapy.

Contact Person Prof. K.N. Lai Tel: 2855 4477 Fax: 2816 2863 Email: knlai@hku.hk

Neurology

Parkinson's disease: pathogenesis and treatment.

Amyotrophic lateral sclerosis: pathogenesis and treatment.

Stroke: in vivo and in vitro studies on neuroprotection against ischaemia; functional MRI study and acupuncture; CT perfusion study in acute or chronic ischaemia.

Contact Person Dr. S.L. Ho Tel: 2855 3315 Fax: 2974 1171 Email: slho@hkucc.hku.hk

Respiratory medicine

Bronchiectasis: mechanisms of neutrophil recruitment; clinical-ultrastructural study of airway cilia; pseudomonas aeruginosa adherence to mucosa basement membrane; pathophysiologic role of adhesion molecules expression, nitric oxide and endothelin-1; in-vitro studies of bacterial (*helicobacter pylori*, *pseudomonas aeruginosa*) toxins on bronchial biopsy culture models + TEM, intracellular iNOs and cytokine expression; airways remodelling.

Lung cancer: molecular genetics; cytotoxic chemotherapy and Chinese herbal medicine for advanced non-small cell carcinoma; environmental risk factor and genes interaction in pathogenesis.

Obstructive sleep apnoea: epidemiology in Chinese and its relationship to anthropometric characteristics, treatment innovation; mechanisms of vascular homeostasis; metabolic aspects in pathogenesis and pathophysiology.

Tuberculosis: surveillance program for tuberculosis in old age homes in Hong Kong.

Contact Person Dr. K.W.T. Tsang Tel: 2855 4542 Fax: 2872 5828 Email: kwtsang@hku.hk

Rheumatology/clinical immunology

Pathogenesis and treatment of allergies, asthma and autoimmune rheumatic disorders, including research into biochemical defects in aspirin-sensitive asthma, efficacy and immunological changes of allergic immunotherapy for allergic rhinitis and asthma, and characterization of shellfish antigens.

Immunopathogenesis of systemic lupus erythematosus: immunogenetic studies; defects in apoptosis and handling of apoptotic bodies; the role of dendritic cells; effects of sex hormones on immune cell function.

In-vitro and clinical studies: traditional Chinese medicine in rheumatoid arthritis.

Contact Person Prof. C.S. Lau Tel: 2855 4049 Fax: 2904 9443 Email: cslau@hku.hk

Postgraduate Admissions Advisors

Prof. Y.L. Kwong Tel: 2855 5859 Fax: 2974 1165 Email: ykwong@hku.hk

Prof. K.S.L. Lam Tel: 2855 4769 Fax: 2816 2187 Email: ksllam@hku.hk

Department of Microbiology

<http://www.hku.hk/mibpage/>

Major Research Areas

Antimicrobial resistance

Antibiotic resistance in *Strep. pneumoniae*, enterococci, *Staph. aureus*, *Burkholderia pseudomallei* and enterobacteriaceae, including epidemiology of resistant bacteria, resistant gene ecology, mechanisms of resistance, clinical relevance, novel methods for diagnosis of difficult-to-detect resistance and evaluation of new antibiotics; novel or emerging β -lactamases in Gram negative bacteria; development and evaluation of new glycopeptides for vancomycin resistant Gram positive bacteria. (Methods used include cloning, gene expression, enzyme kinetics, antibiotic assays, chemical analysis, in vitro assessment of antibacterial activity.)

Contact Person Dr. P.L. Ho Tel: 2855 4193 Fax: 2855 1241 Email: plho@hkucc.hku.hk

Emerging infectious diseases, novel bacteria, and bacterial genomics

Discovery and characterization of emerging pathogens and pathogenic forms and generation of vaccines to counter them, through a range of molecular techniques, immunological techniques, animal models, and bioinformatics tools.

Contact Person Dr. P.C.Y. Woo Tel: 2855 4715 Fax: 2855 1241 Email: pcywoo@hkucc.hku.hk

Emerging infectious diseases, *Penicillium marneffeii*, and fungal genomics

Phenotypic, genotypic, and genomic approaches for the study of emerging pathogens, particularly *Penicillium marneffeii*, to win new insights in fungal genomics, fungal dimorphism, and important diagnostic, therapeutic, and vaccine targets.

Contact Persons Prof. K.Y. Yuen Tel: 2855 4892 Fax: 2855 1241 Email: kyyuen@hkucc.hku.hk

Dr. S.S.Y. Wong Tel: 2855 4897 Fax: 2855 1241 Email: samsosy@hkucc.hku.hk

HIV/AIDS

Drug resistance of the Human Immunodeficiency Virus (HIV); rapid and simultaneous screening of HIV, hepatitis B virus and hepatitis C virus in donated blood.

Contact Person Dr. S.W.K. Im Tel: 2855 4822 Fax: 2855 1241 Email: swkim@hkucc.hku.hk

Immunotherapy for chronic viral infections and related cancers

Development of therapeutic vaccines for immune intervention in chronic HBV infection; study of dendritic cells in chronic hepatitis B patients; development of EBV vaccines for immune intervention in NPC; study of gd T cells in immune surveillance against NPC; polymorphism of chemokine receptors and their ligands in Chinese (in HIV infection); study of HIV co-receptor expression on immune cells in HIV infection.

SARS virus

Study of animal source of SARS; development of SARS vaccines; study of anti-viral peptides for prevention and treatment of SARS; development of monoclonal antibodies against SARS virus.

Contact Person Dr. B.J. Zheng Tel: 2855 4383 Fax: 2855 1241 Email: bzheng@hkucc.hku.hk

Influenza and SARS

Ecology, molecular evolution, epidemiology of animal and avian influenza and the SARS coronavirus; application of viral genetics and reverse genetics to the study of viral attenuation, pathogenesis, inter-species transmission and vaccine development of influenza and SARS coronavirus; immuno-pathogenesis, innate immunity and viral macrophage interactions of influenza and SARS coronavirus; disease burden and health economics of human influenza; laboratory diagnostic methods for influenza and SARS coronavirus.

Contact persons Prof. J.S.M. Peiris Tel 2855 4888 Fax 2855 1241 Email: malik@hkucc.hku.hk
Dr. Y. Guan Tel 2855 4345 Email: yguan@hkucc.hku.hk
Dr. L.L.M. Poon Tel: 2855 4384 Email: lmpoon@hkucc.hku.hk

Medical bioinformatics

Study of medically important bacteria with molecular biology and bioinformatics techniques.

Contact Person Dr. S.K.P. Lau Email: skplau@hkucc.hku.hk

Microbial Pathogenesis

Molecular epidemiology and pathogenesis of enteric pathogens, including *Vibrio cholerae* and *E. coli* O157:H7, in relation to public health and environmental hazards; drug resistance mechanism of *Mycobacterium tuberculosis* and Human Immunodeficiency Virus Type 1 (HIV-1).

Contact Person Dr. W.C. Yam Tel: 2855 4821 Fax: 2855 1241 Email: wcyam@hkucc.hku.hk

Molecular studies of emerging pathogens

Integration of high-throughput screening (HTS) technologies and conventional genetic approaches (including cloning, site-directed deletions) to dissect microbial pathogenesis and identify microbial targets of important diagnostic and therapeutic value.

Contact Person Dr. R.Y.T. Kao Tel: 2855 4891 Fax: 28551241 Email: rytkao@hkucc.hku.hk

Postgraduate Admissions Advisor

Prof. J.S.M. Peiris Tel: 2855 4888 Fax: 2855 1241 Email: malik@hkucc.hku.hk

Department of Nursing Studies

<http://www.hku.hk/nursing/>

Major Research Areas**Women's health**

Quality motherhood (study of maternity service in Hong Kong); family belief systems (study of the meaning of breast cancer for women and their families in Hong Kong); effectiveness of support and relationships for pregnant women; effectiveness of psychoeducational intervention to achieve and maintain dietary calcium intake of pre-menopausal Chinese women; empowerment intervention for abused women; couples' experience of postpartum depression; application of the theory of planned behaviour to predict Chinese women's update of pap smear screening behaviour.

Health promotion

Assessment, validation, and promotion for the quality of life and continuum of care of elderly people in Hong Kong; health promotion project for older adults; study of detection and treatment of depression in Hong Kong geriatric wards; parental perception of childhood immunizations in Hong Kong; breast cancer awareness and breast self-examination: outcome of a community-based health-van education program; experience of depression and expressed needs in Hong Kong families; culture-specific divorce education for Hong Kong parents and their children.

Tobacco and health

Randomised controlled trial of a nurse-delivered staged matched smoking cessation intervention for cardiac patients; effectiveness of nurses' health education intervention in preventing environmental tobacco smoke exposure in sick children; nurses' responsibility in helping patients stop smoking: the nurses' responsibility; nurses' readiness to fight the tobacco epidemic: comparative study with mainland China; tobacco control education in nursing schools in three Pacific Rim countries; development of quality assurance for tobacco cessation counseling interventions; comparative study of nurses' knowledge, attitudes and practice in Hong Kong, Mainland China, and the United States.

Nursing education

Evaluation of the effectiveness of problem-based learning in developing nursing students' critical thinking; faculty development in preparation for the implementation of problem-based learning: A developmental approach in the Department of Nursing Studies; improving the Nursing Curriculum through development of teaching innovations in the psychomotor domain; comparative study of critical thinking of Chinese and Australian nursing students; enhancing teaching and learning through assessment; effectiveness of practising health assessment in the nursing profession of Hong Kong; adopting a context-based problem-based learning model to promote student learning; trans-cultural exchange practicum for pre-registration nursing students; enhancing student learning through an alignment of objectives, teaching and assessment; incorporating assessments as a complementary means to direct desired learning in nursing; integration of peer tutoring scheme into academic programmes to enhance learning and teaching in Hong Kong's universities; constructive alignment in higher education: matching objectives, teaching and assessment; impact of a part-time post-registration nursing degree program on information synthesis and nursing practice; developing a new paradigm for clinical education of university nursing students: an evidenced based approach; peer tutoring as a means of enhancing the professional development of nursing students; bringing patients to classroom teaching and learning in nursing education; evaluation of student learning outcomes related to infant feeding in the nursing curriculum.

Clinical nursing

Impact of fatigue on patients' quality of life after bone marrow transplantation and effects of self-initiated fatigue-reducing strategies; exploration of vaginal douching knowledge level of cervical cancer patients receiving brachytherapy; incidence and predictors of depression after stroke (DAS).

Postgraduate Admissions Advisor

Dr. Agnes Tiwari Tel: 2819 2629 Fax: 2872 6079 Email: afytiwar@hkucc.hku.hk

Department of Obstetrics and Gynaecology

<http://www.hku.hk/obsgyn/>

Major Research Areas

Oncology

Tumour marker in gynecological cancers; oncogenes in gynaecological malignancies; tumour suppressor genes and virus in cervical and vulva cancer; chemosensitivity and drug resistance in gynaecological cancers; management of gynaecological malignancies; study of epigenetics factors in gynecological cancer development; study of mitochondrial DNA mutations in gynecological cancers.

Reproduction

Use of HRT in Hong Kong Chinese women; menopause and hormone replacement therapy; effects of hormone on cognitive function and mood of Chinese women; oestrogen and implantation; intrauterine insemination and ovarian stimulation in the management of subfertility; fertilization; interaction between embryo/sperm and reproductive tract; spermatogenesis and genes on Y chromosome; regulation of oviduct specific glycoprotein; mifepristone and misoprostol in fertility regulation.

Perinatology

Hypothyroidism and iodine deficiency in pregnancy; maternal lipid profile, lipoproteins and glucose tolerance in pregnancy; epidemiology of gestational diabetes mellitus in Chinese patients; nutritional and iron status on pregnancy outcome; dietary manipulation in the treatment of diabetes in pregnancy; predictors of preterm delivery; feto-placental blood flow and placental development in normal and complicated pregnancies; regulation of placental apoptosis on outcome of normal and complicated pregnancies; role of IGF and IGF-BP in placental and fetal development.

Prenatal diagnosis

Ultrasonographic assessment of pregnancies at risk of thalassaemia; early intrauterine physiological changes of Bart's disease; biochemical and ultrasound screening for fetal Down's syndrome.

Postgraduate Admissions Advisor

Dr. William S.B. Yeung Tel: 2855 3405 Fax: 2855 0947 Email: wsbyeung@hkucc.hku.hk

Department of Orthopaedic Surgery

<http://www.hku.hk/ortho/ortho/>

Major Research Areas

Orthopaedic biomechanics

Biomechanics of the lumbosacral spine; biomechanical analysis of lumbar interbody fusion; biomechanics of finger fracture fixations; tendon rehabilitation; biomechanical studies of flexor tendon injuries, new artificial finger joint design; spinal modelling; spinal implant development; Asian total hip arthroplasty design and joint replacement surgery; bone remodelling after total hip replacement; shape memory alloy in spine surgery; biomechanics of sport injuries; human motion analysis and cell biomechanics.

Molecular and cell biology

Experimental scoliosis and surgical treatment without fusion in primates; role of the pineal gland in the causation of scoliosis; genetic mutations in degenerative lumbar disc disease; neurotrophism and neurotrophism in peripheral nerves; molecular basis of bone healing and fracture repair; gene mutations in degenerative disc disease; genetic profiles of bone tumours.

Orthopaedic biomaterials and tissue engineering

Bone and tendon tissue engineering; peripheral nerves and microarterial tissue engineering and grafting; intervertebral disc tissue engineering and grafting; new total hip arthroplasty design and joint replacement surgery; bone remodelling after total hip replacement; shape memory alloy and bioactive bone cement in spine surgery; biomaterials of finger fracture fixations; tissue engineering in guided bone and skin regeneration; allograft docking and union properties; biomaterials for cell encapsulations and drug release.

Orthopaedic neurophysiological

Neurophysiological diagnosis of spinal disorder and spasticity in cerebral palsy; neurotrophism and neurotrophism in peripheral nerves; motor and sensory evoked potential during spinal surgery; spinal muscle EMG; functional electrical stimulation in spasticity and paralysis; EMG of low back pain; neurorehabilitation after spinal cord injury.

Departmental Requirements

1) Written presentation of a literature review (at 3 months) and research proposal (at 6 months).

2) Presentation of research seminars quarterly.

Publication of papers is strongly encouraged.

Postgraduate Admissions Advisor

Dr. William Lu Tel: 2819 9595 Fax: 2818 5210 Email: wwlu@hkusua.hku.hk

Department of Paediatrics and Adolescent Medicine

<http://www.hku.hk/paed>

Major Research Areas

Childhood cancers and thalassaemia syndromes

Cytogenetic and molecular diagnosis of leukaemia and solid tumour; clinical and genetic studies on thalassaemia syndromes; in vitro study of traditional Chinese medicine on neurogenic tumours; haematopoietic stem cells differentiation.

Paediatric epidemiology and biostatistics

Child health issues, including growth, obesity, asthma and clinical trials.

Growth and endocrine disorders

Growth and follow-up studies in normal and small for gestational age babies; nutrition, lipids and growth; childhood diabetes and its complications; long-term health consequences of growth impairment in early life.

Paediatric cardiology

Three-dimensional echocardiographic reconstruction for congenital heart disease; clinical applications of dobutamine stress echocardiography in children; assessment of diastolic function by colour tissue Doppler and acoustic quantification; long-term outcome studies after corrective and palliative surgery for congenital heart disease; clinical studies of interventional cardiac catheterization; non-invasive assessment of arterial distensibility and vascular endothelial function; ventriculo-arterial coupling in congenital and acquired heart disease.

Human molecular genetics

Molecular genetics of sexual differentiation disorders, neurodegenerative disorders, diabetes mellitus and growth disorders.

Neural injuries and degeneration

Molecular and cellular mechanisms involved in hypoxic-ischaemic and hyperbilirubinaemic neural injuries, and motor neuron degeneration and regeneration, including study of differential gene expressions and use of genetic manipulations to explore and test novel therapeutic strategies for these disorders.

Molecular developmental biology

Characterization of genes involved in heart development and congenital heart defects; role of epidermal growth factor in development by transgenic mice; signal transduction pathways of RET receptor tyrosine kinase.

Child neurology

Neurophysiological evaluation of peripheral and central nervous system; database on cerebral palsy, neurofibromatosis, tuberous sclerosis, neuromuscular diseases, attention deficit hyperactivity disorder and autistic spectrum disorders; molecular genetic studies on various neurological disorders in Chinese; neurophysiological studies on neurodevelopmental disorders; comprehensive epilepsy programme including video-EEG monitoring and presurgical evaluation; use of functional independence measure (WeeFIM) as outcome measure for neurorehabilitation; integration of traditional Chinese medicine in neurorehabilitation (tongue acupuncture and traditional Chinese and herbal medicine); neurorehabilitation model; functional neuroimaging study, MRI and PST scan for brain plasticity.

Immunology

Cord blood dendritic cell and T cell development; mannose-binding lectin; SNPs and STRs in immunological and infectious diseases; vaccines study disease; epidemiology of allergic diseases.

Cytokine biology and cancer virology

Host response to virus infection (HIV and avian influenza viruses); biology of cytokine and interferon-signaling pathways and gene regulation; pathogenetic role of tumour viruses in cancer development.

Departmental Requirements

Candidates may be required to sit a qualifying examination before admission. There is a strong emphasis on publication and presentation of research findings.

Postgraduate Admissions Advisor

Dr. P.T. Cheung Tel: 2855 4207 Fax: 2855 1523 Email: ptcheung@hkucc.hku.hk

Department of Pathology

<http://www.hku.hk/patho>

Major Research Areas

Molecular oncology

Molecular genetics of cancers (in blood, lymphoid organs, brain, breast, oesophagus, stomach, colon, liver, nasopharynx, lung, reproductive organs and urinary system), including oncogenes, tumour suppressor genes, DNA mismatch repair genes, cancer susceptibility genes, microsatellite instability, aberrant promoter methylation of cancer-related genes; cancer cytogenetics; analysis of cancer-associated gene expression profiles and cloning of differentially expressed genes; clinicopathological and prognostic factors; cell cycle regulation; angiogenesis; cytokines, growth factors and hormone receptor expression; pathogenetic and immune escape mechanisms in viral oncogenesis; gene therapy models; mouse model of human leukaemia; chemotherapy and radiotherapy induced cellular responses.

Forensic pathology studies

Study of homicides in Hong Kong and comparisons with other countries; rape attitudes and attrition studies; development of teaching aids in forensic training.

Immunology

Lymphocyte development and apoptosis; dendritic cell functions and immune regulation; evolution of the immune system in primitive endothermic vertebrates; evaluation of cytokine production in cancer, autoimmunity and immunodeficiency.

Molecular genetics

Genotypic studies and phenotypic correlation of thalassaemia; molecular genetic basis of haematological disorders; molecular genetic studies on gestational trophoblastic disease.

Nephrology

Genetic, cell culture and animal model studies of adult polycystic kidney diseases; clinicopathological studies of glomerulopathies.

Pathology of organ transplants

Pathology of adult and paediatric transplantation of the liver, kidney, bone marrow.

Reproduction

Studies of cell cycle regulation in human placenta, MHC antigen expression in trophoblasts, and immunophenotype of placenta-infiltrating leukocytes.

Clinical biochemistry/ chemical pathology

Lipid and endocrine disorders; heavy metals and trace elements in excess or deficiency states; therapeutic drug monitoring of the newer immunosuppressants in transplantation and anti-epileptic drugs; herbal toxicology.

Departmental Requirements

Presentation of research seminar at least once a year and before submission of thesis.

Postgraduate Admissions Advisor

Dr. L.W. Lu Tel: 2855 4870 Fax: 2872 5197 Email: postgrad@pathology.hku.hk

Department of Pharmacology

<http://www.hku.hk/pharma>

Major Research Areas

Chinese medicine

Isolation of the active ingredients from different Chinese herbs and study of their anti-inflammatory actions for the treatment of gastrointestinal and hepatic disorders (e.g. gastritis, hepatitis and colitis); action of Chinese medicines such as ginseng and Gingko biloba extracts, and their positive effects in vascular disorders; mechanistic studies of effects of Chinese herbal medicines and green tea on gastrointestinal disorders, obesity, adjunctive chemotherapy, and osteoporosis.

Drug metabolism

Metabolic bioactivation of xenobiotics; chemical scavenging of reactive metabolites and downregulation of cytochrome P450 expression by bacterial endotoxins.

Gastrointestinal disorders and inflammation

Study of the mechanisms of cigarette smoking and nonsteroidal anti-inflammatory drugs on ulcer formation and healing in the gastrointestinal tract and drug development for the management of gastroduodenal ulcers; investigation of the interactive relationship between superoxide and nitric oxide in the pathogenesis of inflammatory diseases; study of the pathogenesis and therapeutic intervention of inflammatory bowel diseases and colorectal cancer; effects of sleep deprivation in gastrointestinal disorders.

Toxicology

Pharmacologic modulation of oxidant-induced tissue injury; antioxidant defence mechanisms in pathological states of oxidative stress; redox regulation of the expression of proinflammatory mediators by transcriptional factors; role of repair enzymes in DNA damage and cell death.

Vascular biology and pharmacology

Endothelial control of vascular tone and growth in health and disease; regulation of cardiovascular function by lipid mediators and steroid hormones; effects of estrogen, phytoestrogens and other steroid sex hormones on vascular systems.

Departmental Requirements

Participation in journal club and presentation of research seminars at least once a year.

Postgraduate Admissions Advisor

Prof. R.Y.K. Man Tel: 2819 9250 Fax: 2817 0859 Email: pharma@hkusua.hku.hk

Department of Physiology

<http://www.hku.hk/physio/>

Major Research Areas

Cardiovascular physiology

Neural and endocrine control of the cardiovascular system; cardioprotection of preconditioning and sex hormones; control of blood flow in skeletal muscle, nose and salivary glands.

Contact person Dr. H. Ballard Tel: 2819 9232 Fax: 2855 9730 Email: ballard@hkucc.hku.hk

Neurosciences

Neural coding of spatial recognition; development and plasticity; neural regeneration after trauma; plasticity of cardiovascular function following postural disequilibrium; neuroprotection of dopamine neurons in Parkinson's disease; motor system in normal subjects and patients with motor disorder.

Contact person Prof. Y.S. Chan Tel: 2819 9263 Fax: 2855 9730 Email: yschan@hkucc.hku.hk

Cell and molecular physiology

Ca²⁺ homeostasis and signaling mechanisms; gene expression of neuropeptides; excitation contraction coupling in airway smooth muscles; opioid and melatonin receptors.

Contact person Prof. T.M. Wong Tel: 2819 9194 Fax: 2855 9730 Email: wongtakm@hkucc.hku.hk

Pathophysiology

Physiological responses to hypoxia and ischaemia.

Contact person Dr. M.L. Fung Tel: 2819 9234 Fax: 2855 9730 Email: fungml@hkucc.hku.hk

Endocrinology/neuroendocrinology

Hormonal changes in ageing, diabetes and stress; melatonin and prostate cancer.

Contact person Prof. F. Tang Tel: 2819 9269 Fax: 2855 9730 Email: ftang@hkucc.hku.hk

Chinese herbal medicine

Pharmacology and therapeutic values of natural products derived from Chinese medicinal plants.

Contact person Dr. S.Y.W. Shiu Tel: 2819 9261 Fax: 2855 9730 Email: sywshiu@hkucc.hku.hk

Departmental Requirements

Presentation of at least one departmental seminar

Postgraduate Admissions Advisor

Prof. T.M. Wong Tel: 2819 9194 Fax: 2855 9730 Email: wongtakm@hkucc.hku.hk

Department of Psychiatry

<http://www.hku.hk/psychi/>

Major Research Areas

Molecular and clinical psychopharmacology

Study of neurotransmitter receptors and their interactions with psychoactive compounds at the molecular level; study of mechanism of actions of antidepressant and antipsychotic compounds at the clinical level.

Contact person Prof. S.W. Tang Email: micatang@yahoo.com

Behavioural genetics

Application of current genetic concepts, laboratory technology and biostatistics for the genetic study on human behavior; association study design through population-based case control and family based parental and sibling control; linkage study in affected sib-pair design with special focus on quantitative trait loci analysis; endophenotypes for gene mapping; candidate genes of neurotransmitter systems and neuronal growth factors for testing genetic predisposition to major mental disorders (e.g. schizophrenia, depressive disorder, obsessive compulsive disorder, pathological gambling, drug and alcohol addiction, personality and behavioural patterns).

Contact person Dr. Ronald Chen Email: rylchen@hku.hk

Clinical health psychology

Psychosocial oncology; liver transplantation; youth mental health problems, suicide, and early intervention; women's health; weight and eating problems; applications of cognitive behavioural therapy in psychiatric disorders, including panic disorder, depression, anxiety disorders, and schizophrenia; development of pain assessment instruments; psychosocial impact of chronic illnesses, including diabetes mellitus, thalassaemia major; early intervention and detection of dementia; applications of indigenous and western approaches in psychotherapy.

Contact person Prof. Peter Lee Email: hrcmlwh@hku.hk

Psychotherapy and human sexuality

Applicability and adaptation of psychotherapy and sex therapy in Chinese and Hong Kong culture; psychotherapeutic processes in Chinese and their relation with statistical, mathematical or physical models; sexual beliefs, attitudes, behavior and practices of Chinese in different regions of China; methods and effects of sex education and psychotherapy training.

Contact person Prof. M.L. Ng Email: hrcnml@hku.hk

Cognitive neuropsychiatry

Elucidation of abnormal psychological processes with cognitive science and neuropsychology methods: evolution of psychotic symptoms, illness awareness, executive function, attention impairments, motor system dysfunction, semantic memory impairments, characterization of neurocognitive impairments; development of new assessment paradigms; use of neurocognitive markers in prognostic and intervention prediction; prospect of cognitive remediation; neurocomputational modelling: use of information technology and computer models in the study of thought processes and their disturbances.

Contact persons Dr. E. Chen Email: eyhchen@hku.hk
Dr. R. Chan Email: rckchan@hkucc.hku.hk

Psychotic disorders studies and intervention (PSI) programme

Neurocognitive function: neurocognitive impairments; definition of recovery pattern and factors affecting neurocognitive outcome; use of neurocognitive markers in prognostic and intervention prediction; prospect of cognitive remediation.

Psychopathology: natural history of symptoms and abnormal experiences, prodromal states; Experiential issues and knowledge of illness: subjective aspects of psychosis integration of illness experience, recovery, quality of life, recovery experience of care giving, stigmatization; Intervention: psychopharmacology of antipsychotics and other medications, cognitive and motor side effects, pharmacogenetics, development and prediction of treatment resistance; suicide prevention; psychoeducational group therapy.

Contact persons Dr. E. Chen Email: eyhchen@hku.hk
Dr. R. Chan Email: rckchan@hkucc.hku.hk

Ethics and law

Interface between law, ethics and medicine, especially within psychiatry: capacity of patients to give consent to treatment; decision-making about maintenance treatment in psychotic patients; diagnosis disclosure in dementia; health care advance directives; genetic discrimination in schizophrenia; methods and effects of medical education on ethical and legal aspects, professionalism and role modeling.

Contact person Dr. J. Wong Email: jgws Wong@hku.hk

Women's health

Understanding and promotion of women's physical and mental health through a holistic approach integrating knowledge and research methodologies in health psychology and social medicine: development of locally valid research and clinical instruments for assessing various areas of women's health; study of premenstrual and menstrual distress among Chinese women; psychocultural context of menopause; psychological intervention for patients with gynecological cancers; disordered eating and body image problems among pregnant women; decision-making processes in obstetrics and gynecological settings; interface between culture and health.

Contact person Dr. A. Lee Email: amlee@hkucc.hku.hk

Brain imaging

Magnetic resonance imaging (MRI) study of complex brain disorders involving mood, speech, cognition and behavioural systems, to explore potential multiple links to various psychiatric disorders (schizophrenia, autism and hyperactivity) by analysis of brain voxels.

Contact persons Dr. Siew Chua Email: sechua@hkucc.hku.hk
Dr. Grainne McAlonan Email: mcalonan@hkucc.hku.hk

Substance misuse assessment research

Study of harmful effects (e.g. dependence potential, cognitive impairment) of popular club drugs such as ecstasy, ketamine and methamphetamine; psychological risk factors for substance misuse; genetic predisposition of substance misuse; treatment protocol for drug dependence.

Contact person Dr. Ronald Chen Email: rylchen@hku.hk

Child psychiatry

Executive functions and motivation in children and young adults with regard to school performance; language deficits and training of autistic children; psychophysiology of attentional and hyperactive disorder in childhood; family studies of children with psychiatric disorders.

Contact persons Dr. T.P. Ho Tel: 2855 3095
Prof. S.W. Tang Email: micatang@yahoo.com

Sleep disorders

Epidemiology, clinical presentation, etiology and treatment of major sleep disorders; measurement of sleepiness, sleep apnea.

Contact person Dr. K.F. Chung Email: kfchung@hku.hk

General psychiatric treatment and rehabilitation

Public perception of mental illness; psychiatric stigma; electroconvulsive therapy.

Contact person Dr. K.F. Chung Email: kfchung@hku.hk

Postgraduate Admissions Advisor

Prof. Peter Lee Email: hrcmlwh@hku.hk

Department of Surgery

<http://www.hku.hk/surgery/>

Major Research Areas**Basic research**

Cancer biology; proteomics in liver cancer; transplantation immunology; mechanism of immune tolerance induction; developmental genetics; molecular mechanism and signaling in neural development; molecular and cellular basis of inflammation; macrophage function; cell adhesion molecules; bacterial endotoxin and sepsis.

Contact person Dr. J. Luk Tel: 2819 9628 Fax: 2819 9634 Email: jmluk@hkucc.hku.hk

Breast diseases

Histoculture drug response assay; molecular mechanism of apoptosis by polysaccharide peptide (PSP) on breast cancers; tumour invasion; detection of micrometastasis in breast cancer by molecular approaches and its prognostic significance; study of acute phase response after operation; wound healing and relation with matrix metalloproteinases.

Contact person Dr. L.W.C. Chow Tel: 2855 4773/4760 Fax: 2817 2291

Cardiothoracic surgery

Analysis of long term results of CABG in patients with diabetes mellitus; multivariate analysis of mortality and morbidity in redo valvular replacement, multivalent off-pump coronary bypass surgery, infective endocarditis and aortic aneurysm surgery; analysis of long term survival in congenital cardiac surgery such as Fontan operation, arterial switch operation and adolescent tetralogy of Fallot; analysis of relationship between subarterial ventricular septal defect and aortic valve prolapse; correlation of intraoperative cerebral blood flow doppler assessment and postoperative psychoneurological dysfunction.

Contact person Dr. S.W. Chiu Tel: 2518 2639/2630 Fax: 2553 3436

Colorectal cancer

Total mesorectal excision of rectal cancer; adjuvant radiotherapy and chemotherapy for Dukes B2 and C tumours after curative resection; familial and hereditary colorectal cancer; laparoscopic procedures for colorectal cancer; surgery for recurrent cancer, haemorrhoids; anal physiology and adhesion.

Contact person Dr. K.W. Chu Tel: 2855 4762/4763 Fax: 2872 8425

Endocrine surgery

Parathyroid autotransplantation: clinical and molecular studies; risk group analysis in thyroid carcinoma; oncogene expression in thyroid and endocrine tumours; rapid PTH assay in parathyroid surgery; ret-protooncogene expression in papillary carcinoma of thyroid; genetic study of multiple endocrine neoplasia syndromes.

Contact person Dr. C.Y. Lo Tel: 2855 4773 Fax: 2817 2291 Email: cylo@hkucc.hku.hk

Esophageal cancer

Preoperative chemoradiation for treatment of esophageal cancer; chemoradiation as definitive palliative treatment and intraluminal brachytherapy for treatment of esophageal cancer; metallic stenting for esophageal cancer; thoracoscopic esophageal resection for esophageal and hypopharyngeal cancer; minimal Access surgery for achalasia; swallowing disorders; manometry; gastroesophageal reflux disease in Chinese; quality of life in patients with esophageal cancer; endoscopic ultrasound in staging of esophageal cancer.

Contact person Dr. S. Law Tel: 2855 4774 Fax: 2819 4221 Email: slaw@hkucc.hku.hk

Gastroduodenal surgery

Clinical: foreign body ingestion; ulcer diseases and their complications (laparoscopic surgery, therapeutic endoscopy for bleeding; management of perforated ulcer; H. pylori); Reflux esophagitis; gastrointestinal bleeding of obscure origin (small bowel enteroscopy); gastric tumours (adenocarcinoma staging by endoscopic ultrasound and laparoscopy, regional intra-arterial chemotherapy); lymphoma; stromal tumours.

Basic Science: ulcer disease (growth factors, ulcerogenesis); gastric adenocarcinoma (molecular genetics, novel therapeutic approaches); gastric stromal tumour (molecular genetics).

Contact person Dr. K.M. Chu Tel: 2855 4637 Fax: 2819 4221 Email: chukm@hkucc.hku.hk

Head and neck cancer

Reconstructive options after major resections in head and neck region; whole organ histological section to study patterns of tumour extension; nutritional study for patients undergoing major head and neck surgery; effects of radiotherapy on free tissue transferred with microvascular technique; nasopharyngeal cancer; hearing problems.

Contact person Prof. W. Wei Tel: 2855 4237 Fax: 2818 4407

Hepatobiliary and pancreatic surgery

Hepatocellular carcinoma: hepatocarcinogenesis and hepatitis B virus; angiogenesis; cryotherapy; randomised controlled trials including non-operative treatment; surgical techniques and adjuvant therapy after hepatic resection.

Liver transplantation: small for size liver transplant and artificial liver support; clinical application of living related liver transplant in adults; biliary pancreatitis, acute cholangitis, intrahepatic stones, malignant biliary obstruction; endoscopic and laparoscopic ultrasonography.

Contact person Prof. S.T. Fan Tel: 2855 4703 Fax: 2818 4407

Neurosurgery

Event-related evoked potentials in brain damaged patients; pituitary tumours; monitoring in head injury; cerebral blood flow study; clinical course and pathophysiology of vasospasm and hyperaemia after traumatic head injury; measurement of cerebral blood flow velocity to define the physiological relationship between velocity and blood flow; phase-contrast velocity MRI for flow dynamics of cerebrospinal fluid.

Contact person Dr. Y.W. Fan Tel: 2855 3368/3773 Fax: 2818 4350

Otorhinolaryngology (E.N.T.)

Acoustic rhinomanometry in children; turbinectomy for hypertrophic inferior turbinate; orbital decompression for thyrotoxicosis; cochlea implant for children; otoacoustic emission for screening of high-risk newborn babies; dizziness and balance problems.

Contact person Prof. W. Wei Tel: 2855 4237 Fax: 2818 4407

Paediatric surgery

Developmental biology; molecular genetics and pathology of Hirschsprung's disease and related neural crest disorders; embryogenesis and fetal development of gut; cellular mechanisms involved in VACTERL association, including esophageal atresia and duodenal atresia; metabolic response of neonates to major surgery; biliary atresia and choledochal cyst; liver transplantation; experimental small bowel transplantation; intestinal ischaemia-reperfusion; transplantation immunology; childhood cancers; dendritic cell biology in transplantation and anti-tumour therapy.

Contact person Prof. P.K.H. Tam Tel: 2855 4850/3536 Fax: 2817 3155 Email: paultam@hkucc.hku.hk

Plastic and reconstructive surgery

Effect of growth factors on wound healing; keloid and hypertrophic scars.

Contact person Prof. W. Wei Tel: 2855 4237 Fax: 2818 4407

Urology

Molecular study of bladder cancer; treatments for male infertility and erectile dysfunction; medical and surgical treatment of benign prostatic hyperplasia; evaluation and treatment of prostatitis; urethral sphincter physiology.

Contact person Dr. P.C. Tam Tel: 2855 3032/3367 Fax: 2872 8425

Vascular surgery

Prospective study correlating demographic and biochemical risk factors and the severity and degree of progression and the long-term natural history of atherosclerosis in patients with peripheral arterial diseases; ultrasonography, of the prevalence and the risks of deep-vein thrombosis in the Chinese population; computer-assisted carotid plaque morphology; study of the molecular basis and cellular signaling involved in the pathogenesis of abdominal aortic aneurysms; expression of different cellular receptors and the modulators of extracellular matrix protein in human aneurismal aortic wall.

Contact person Prof. S.W.K. Cheng Tel: 2855 4962 Fax: 2855 4961

Departmental Requirements

Students are required to attend and give presentations at departmental research meetings and research laboratory meetings.

Postgraduate Admissions Advisor

Dr. John Luk Tel: 2819 9628 Fax: 2819 9636 Email: jmluk@hkucc.hku.hk

Faculty of Science

<http://www.hku.hk/science/>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



The Faculty of Science boasts a long history of excellence in basic research and a team of outstanding scholars from around the world with a wide range of research expertise. In recent years, the Faculty has also placed increasing emphasis on, and achieved remarkable progress in, applied and strategic research.

The goal of the Faculty is to train the next generation of science and scientifically aware graduates, and through its teaching and research to add significantly to scientific knowledge and practice.

The Faculty presently contains seven departments: Botany, Chemistry, Earth Sciences, Ecology and Biodiversity, Mathematics, Physics, and Zoology. A number of research centres, as well as affiliations with external organizations within Hong Kong and further abroad, have also been established. In addition, members of the Faculty have extensive research interactions with the Government and industry sectors.

Excellent research facilities exist within the Faculty, which enjoys some of the best-equipped and modern research laboratories available within the region. Further, the University's library facilities are first-rate and compare admirably with leading international institutions.

The Faculty attracts a significant portion of the total research funds awarded to the University from the RGC, CERG, RGC Co-operative Research Centres Scheme and the Innovation and Technology Fund. In addition to such research income, the Faculty has successfully won grants from the Industry Support Fund, as well as research contracts and funding from a variety of sources.

The Faculty currently has over 400 research students from more than 12 countries.

Department of Botany

<http://www.hku.hk/botany>

Major Research Areas

Biotechnology

In situ protease detection technologies; high-throughput single nucleotide polymorphisms (SNPs) discovery and detection technologies; functional genomics via global protein tagging using ATP-Exon tapping; application of double-stranded RNA as a novel strategy for viral resistance in animals; expression of plant defense proteins in transgenic crops; micropropagation of local orchids.

Molecular biology

Molecular biology of microbial dehalogenases, yeasts, acyl-CoA binding proteins in Arabidopsis; cloning of plant metal-binding protein genes; cloning of ethylene biosynthesis and receptor genes; ethylene biosynthesis in ripening fruits; plant signal transduction; plant cell cytoskeleton; microspore culture; in situ hybridization; production of transgenic plants; pesticide residues in vegetable crops; post-harvest physiology and preservation of lychees; agricultural development in southern China; wastewater treatment by aquatic plants, integrated bacterial-microalgal systems and genetic engineering.

Food science

Development of health foods; genetic resources and nutritional properties of Amaranthus, wheat and yam; wheat-based composite flours; structure-function relation of food proteins; chemical modifications of proteins from soymilk residues; seaweed-derived food polysaccharides; starch and starch products in food processing; rheology, viscosity and texture in food processing; heat transfer in porous food materials; ginseng processing by microwave techniques; fermentation technology; microalgal biotechnology; plant cell and organ cultures, separation and purifications of carotenoids by HPLC

Departmental Requirements

For MPhil Students: Participation and presentation in research seminars and/or guided study

For PhD students: Participation and presentation of seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Dr. W.K. Yip Tel: 2299 0328 Fax: 2858 3477 Email: wkyip@hkucc.hku.hk

Department of Chemistry

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

Major Research Areas**Analytical chemistry**

Atomic spectroscopy; sample introduction methods for atomic sources; automation in chemical analysis; analytical techniques for environmental pollutants and food additives; capillary and microchip capillary electrophoresis; biological mass spectrometry and proteomics applications.

Inorganic chemistry

Inorganic and organometallic photochemistry (including studies in microheterogeneous media); asymmetric synthesis and organic oxidation using metal complexes; structure and properties of high nuclearity metal clusters; biomimetic models for nitrogen transfer reactions; chemistry of lanthanides; metal-alkylidyne and -alkylidene complexes; metal-protein interactions; supramolecular chemistry; molecular recognition and chemosensing; recognition and cleavage of DNA by metal complexes; molecular metal-based materials with novel properties.

Materials research

Light emitting materials; nanoparticles; catalysts and materials for green oxidation.

Organic chemistry

Synthetic organic chemistry: new synthetic methods, asymmetric catalysis, total and enantioselective synthesis of natural products; chemical biology of natural products; chemical and biological oxidation reactions; design, synthesis and applications of foldamers and peptidomimetics; drug design and drug synthesis; fatty acids: synthesis, chemical, physical and biological properties.

Polymer chemistry and synthesis

Synthesis and characterization of polymers with potential applications in photonics, electronics, and organic transformations.

Physical chemistry

Molecular simulation: Monte Carlo and molecular dynamics calculations; electrochemistry: scanning probe microscopy, fuel cells and sensors, advanced lithium battery, electroplating techniques; molecular reaction kinetics and dynamics; solution phase chemical dynamics; theoretical investigation of electrical and optical properties of polymeric materials; theoretical and computational biophysics including protein folding and charge transfer in biomolecules; reaction mechanisms and chemical intermediates; physical organic chemistry; energetics, structures and mechanisms of gas-phase ions fragmentation.

Spectroscopy

High resolution laser and IR spectroscopy of small molecules; resonance Raman spectroscopy; NMR: new pulse sequences employing magnetic field gradients; ultrafast time-resolved spectroscopy; time-resolved resonance Raman spectroscopy.

X-ray crystallography

Structural chemistry

Biological chemistry

Structure determination of biomolecules, interaction, dynamics and functional studies of biomolecules and drugs (and metallo-drugs); development of new experimental and computational methods for high throughput structure determination of biomolecules by NMR spectroscopy.

Departmental Requirements

For MPhil students: Participation and presentation in research seminars and/or guided study.

For PhD students: Participation and presentation of seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Prof. D.L. Phillips Tel: 2859 2160 Fax: 2857 1586 Email: chemmail@hku.hk

Department of Earth Sciences

<http://www.hku.hk/earthsci/index.html>

Major Research Areas

Geology of Asia/Pacific

Tectonics; structural geology; petrology; paleontology; paleomagnetism

Contact Person Prof J Aitchison Email: jona@hku.hk

Evolution of oceanic and continental lithosphere

Geology of ophiolite; crustal history; geochemistry; volcanology; micropalaeontology.

Contact Person Dr. M Sun Email: minsun@hku.hk

Applied geosciences and environmental reconstruction

Geophysics; hydrogeology; engineering geology; quaternary geology; coastal management; isotope geochronology; natural hazards.

Contact Person Dr. L S Chan Email: chanls@hku.hk

Postgraduate Admissions Advisor

Dr. A. Aydin Tel: 2241 5474 Fax: 2517 6912 Email: ayaydin@hkucc.hku.hk

Department of Ecology & Biodiversity

<http://www.hku.hk/ecology/>

Major Research Areas

The mission of the Department of Ecology & Biodiversity (including the Swire Institute of Marine Science, SWIMS) is to contribute to the understanding, conservation and management of natural environments in Hong Kong, southern China and Asia.

Core topics are wildlife conservation; marine biology (based primarily at SWIMS); microbial diversity and molecular ecology; systematics; and environmental toxicology. The Department places emphasis on Hong Kong and southern China, and uses molecular and field-based approaches.

Ongoing research activities include unraveling the taxonomic relationships among groups of flowering plants and fungi; bioprospecting for novel compounds in fungi; the molecular ecology of extremeophiles in hot springs; radiotelemetry studies of the activities of birds, mammals and endangered turtles; reforestation of degraded hillsides; species reintroduction as a conservation tool in Hong Kong; ecology and conservation of spawning aggregations of marine fishes; intertidal ecology, particularly of rocky shores; growth and behaviour of octopuses and cuttlefish; stable isotope studies of food webs and energy flow in streams; marine ecotoxicology; and bioremediation of pollution by bacteria.

Departmental Requirements

For MPhil Students: Participation and presentation in research seminars and guided study.

For PhD students: Participation and presentation of seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Dr. G.A. Williams Tel: 2299 0604 Fax: 2517 6082 Email: hrrsbwga@hkucc.hku.hk

Department of Mathematics

<http://www.hku.hk/math/>

Major Research Areas

Pure and applied mathematics

Commutative algebra; calculus of variations; combinatorics; control theory; differential equations; differential and integral inequalities; financial mathematics; functional analysis; algebraic geometry; complex geometry; differential geometry; graph theory; history of mathematics; mathematical modelling; matrix theory; number theory; operational research; scientific computing; several complex variables.

Departmental Requirements

For MPhil Students: Participation and presentation in research seminars and/or guided study.

For PhD students: Participation and presentation of seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Prof. M.K. Siu Tel: 2859 2250 Fax: 2559 2225 Email: math@hkucc.hku.hk

Department of Physics

<http://www.physics.hku.hk/>

Major Research Areas

Theory of high temperature superconductivity; surface science; structure of surfaces; electron holography; theory of low-energy electron diffraction; photoelectron diffraction; high resolution electron energy loss spectroscopy; reflection high energy electron diffraction; scanning tunneling microscopy and atomic force microscopy; crystal growth by molecular beam epitaxy; superconductivity (both theoretical and experimental); transport properties in mesoscopic and nanoscopic systems; properties of transition metal oxide systems; geometric phase; neural network; quantum dissipation and quantum chaos systems; semi-conductor and positron-semi-conductor physics, positron beam technology; defects in semiconductors; superhard carbide coatings; thin film technology of superconductors and semiconductor samples; photoconductivity, thermal activation, optical absorption and photoluminescence at low temperature to study the effect of ion implantation and annealing of deep donor levels in III - V semiconductors; optical properties of semiconductor nanostructure; organic optoelectronic devices, metal oxide nanostructures; neutron star structure and evolution; properties of strange stars; gamma-ray burst, gamma-ray emission from pulsars and glitches; supernova observations; electronic and optical properties of semiconductor nanostructures and device applications; quantum information theories; cellular automata; environmental radioactivities; history and philosophy of science, especially its role in society and image in modern literature and drama.

Departmental Requirements

For MPhil Students: Participation and presentation in research seminars and/or guided study.

For PhD students: Participation and presentation of seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Prof. Z.D. Wang Tel: 2859 1961 Fax: 2559 9152 Email: zwang@hkucc.hku.hk

Department of Zoology

<http://www.hku.hk/zoology>

Major Research Areas

Biochemical genetics

Isoenzyme biochemistry; chromosome sorting and karyotyping; DNA fingerprinting in herbal medicine identification; population biology of wild orchids.

Cell biology

Neuroscience and whole cell patch clamping; transmembrane and secondary messenger signaling; mammalian cell/tissue culture; insect cell line production; cell proliferation and apoptosis; chromosome mapping by fluorescence in situ hybridization; laser confocal microscopy and flow cytometry applications in cell biology and TCM screening; cancer biology, cell adhesion and signaling, tumour migration and invasion.

Endocrinology

Hormonal control of nutrition growth and cardioventilatory function; paracrine interaction in the testis; receptor tyrosine kinases; brain-gut peptides and receptors; neural regulation of gonadotropin releasing hormone; neuroendocrine regulation and signal transduction of growth hormone release and gene expression; regulation of Stanniocalcin gene expression in neuroblastoma cells; endocrine regulation in ovarian physiology and pathology.

Environmental technology and marine pollution

Livestock waste treatment technology; biology and biochemistry of redtide organisms and paralytic shell fish poisoning; nutrients and marine plankton blooms; DNA fingerprinting in environmental stress indication; physiological responses of marine fishes to marine pollutants; ecotoxicity studies of major marine pollutants in Hong Kong.

Food and nutritional science

Neurochemistry of appetite control; geriatric nutrition; obesity, adipocyte-derived hormones and thermogenesis; human energy metabolism; nutritional status assessment; dietary fat and cancer interrelationship; diet and immunity; milk-borne growth promoting peptides; nutrition survey; meat quality and texture; developmental gastrointestinal physiology; toxins in sea food; soy sauce fermentation technology and flavour production; gene-nutrient interaction, dietary supplements and functional foods; Chinese medical foods.

Immunology and immunological techniques

Novel complement proteins in man; chicken and pig virus vaccine development; ELISA and DEFIA diagnostic assay development; monoclonal antibody production; molecular diagnosis; immunogenesis of parasitic infections; development of diagnostic kits; DNA based diagnostic assays for veterinary infectious diseases.

Molecular biology

Cloning, sequencing and expression of genes for tyrosine kinase receptors, GH/PRL gene and their receptors family, gonadotropin releasing hormone receptor, growth hormone releasing hormone receptor and secretin receptor; population genetics and conservation biology; molecular immunology of parasitic worms; shrimp vitellogenesis inhibitory hormone; insertion of foreign genes into shrimp genome; direct protein sequencing and genetic engineering of androgen-binding protein; ophiobolin and calmodulin interaction; chicken and fish genomes DNA finger printing; comparative sequences of Stanniocalcin genes in fish and mammals; comparative genome analysis; proteomic analysis of ovarian cancer.

Parasitology

Molecular basis of host parasite interactions; serodiagnosis and molecular diagnosis, cell-mediated immunity; immunopathology transmission of animal diseases to man.

Reproductive biology

Specialized cell junctions in the testis; embryo biotechnology in mice; protein purification and gene cloning of germ cell growth factors; male contraceptive design and delivery.

Scientific aquaculture

Osmoregulation and reproduction of eel and marine fish; high-density fish culture using recycled water; improvement of shrimp culture technique; reproduction in shrimps; feed formulation for marine fishes; gene silencing, functional genomics.

Transgenic biotechnology

Transgenic fish as models for genetic engineering, transgenic chicken as bioreactor; cell-specific gene knock-out transgenic mice.

Departmental Requirements

For MPhil Students: Participation and presentation in research seminars and/or guided studies.

For PhD students: Participation and presentation in seminars; any other specific departmental requirements.

Postgraduate Admissions Advisor

Dr. Edmund T.S. Li Tel: 2299 0800 Fax: 2559 9114 Email: etsli@hkucc.hku.hk

Faculty of Social Sciences

<http://www.hku.hk/socsc/>

MPhil and PhD Studies at The University of Hong Kong 2004-2005



Department of Zoology

Department of Zoology
The Department of Zoology is one of the oldest and largest departments in the Faculty of Social Sciences. It has a long and distinguished history of research and teaching in the field of zoology. The department is currently headed by Professor [Name].

Major Research Areas

Established in May 1967, the Faculty of Social Sciences currently consists of the following five core departments:

- Department of Politics and Public Administration
- Department of Psychology
- Department of Social Work and Social Administration
- Department of Sociology
- Department of Statistics and Actuarial Science

The Faculty is also the home for eight research centres: Centre on Anthropological Research, Centre on Behavioral Health, Centre for Civil Society and Governance, Centre for Criminology, HKU Family Institute, Sau Po Centre on Ageing, Social Sciences Research Centre and The Hong Kong Jockey Club Centre for Suicide Research and Prevention. While the subject matter of these disciplines varies, they focus on the systematic examination of human behaviour, and contribute to a better understanding of modern society.

The Faculty is responding to the changing social and economic environment by strengthening its multi-disciplinary teaching and research, professional community service, and socially relevant and policy research. Besides maintaining its leading role in the core disciplines, the Faculty is actively developing four multi-disciplinary concentrations: culture and media studies, global studies and international relations, social and public policy, and public health and safety. The core departments also pursue cross-disciplinary academic and research collaboration with the research centres and overseas institutions to strive for excellence in teaching and research.

Department of Politics and Public Administration

<http://www.hku.hk/ppaweb/>

Major Research Areas

Public administration and public policy

Current issues in public sector management, including civil service reform; the transformation of public enterprises and privatization; the ethics of public servants; institutional analysis of public service delivery; policy design.

Comparative politics

Development politics (with particular reference to China, Hong Kong, and other Asian countries), including electoral behaviour in Hong Kong; municipal management in China; public personnel administration in China and Hong Kong; the role of women in China and the Third World; central-regional relationship in China (with reference to Guangdong and Shanghai); comparative Asian bureaucracies.

International relations

International and regional politics in East Asia, including international security in the Asia-Pacific region; the international political economy of East Asian development; human rights and foreign policy; China's foreign relations; China-Taiwan relations; international dimension of Hong Kong's development.

Political theory

Contemporary political theories of liberalism, social justice, democracy, welfare rights and Marxism; moral theories; Aristotle's political theory.

Departmental Requirements

Students are required to participate in Departmental seminars, make seminar presentations, lead tutorials and assist in activities organized by the Department.

Postgraduate Admissions Advisor

Dr. I. Thynne Tel: 2859 2397 Fax: 2858 3550 Email: thynne@hkucc.hku.hk

Department of Psychology

<http://www.hku.hk/psychodp/>

Major Research Areas***Cognitive studies***

Language and cognition: psycholinguistic and neurolinguistic investigation of language, including fMRI techniques, machine recognition of speech, eye movement, reading problems and subtypes of Chinese dyslexia, Chinese-English bilingualism, immigrant children's maintenance, loss, and re-learning of their heritage language, and linguistic relativity.

Development of concepts, including the development of intuitive biology.

Vision Research: computational and experimental investigation of the relationship between the statistics of natural images and human spatial vision processing; spatial localization and self-calibration by the human visual system; visual and vestibular interaction and adaptation in space and motion perception.

Psychophysiology and perception.

Social cognition, applied social and organizational psychology

Social cognitive processes underlying personality coherence, and the effect of language on social cognition, intergroup perception, attitude formation, and interpersonal interaction; indigenous social psychology and the study of the Chinese self; applied aspects of social and organization psychology: the study of attitudes, beliefs, aptitudes and abilities of the work force and their relevance to human resources management in the Chinese context.

Applied psychology

Clinical psychology: neuropsychology, including substrates for emotions and effects of electromagnetic field and brain damage on attention; health psychology, including post-traumatic growth;

Educational psychology: literacy acquisition; motivation and social variables in connection with children's learning and behaviour problems; diagnosis and treatment of dyslexia; health education and the interface between family and school.

Application of constructivist methods to questions in applied psychology.

Departmental Requirements

Applicants who do not have a first degree in Psychology are required to obtain a minimum score of 550 on GRE Subject Test in Psychology.

Postgraduate Admissions Advisor

Dr. Harry C.C. Hui Tel: 2859 2291 Fax: 2858 3518 Email: huiharry@hkucc.hku.hk

Department of Social Work and Social Administration

<http://www.hku.hk/socwork/>

Major Research Areas

Health and mental health; rehabilitation; family and child care; family therapy; children and youth services; juvenile delinquency; gender and human sexuality community work; social welfare administration and social policy; other aspects of social welfare and social work practice.

Departmental Requirements

1. PhD applications are required to submit a 10-page research proposal, while MPhil applicants are required to submit a 6 to 8-page statement of research interest with the application.
2. A presentation at the Research Postgraduate Seminar for confirmation of candidature is required.

Postgraduate Admissions Advisor

Dr. Petula, Sik-ying Ho Tel: 2859 2091 Fax: 2858 7604 Email: psyho@hkucc.hku.hk

Department of Sociology

<http://www.hku.hk/sociodep/>

Major Research Areas

Globalization and Regional Studies

Nature and impact of globalization, especially in the Asian region, including studies of Chinese society, Hong Kong society, overseas Chinese global network, human dimensions of information technology, class, wealth and poverty, education and teaching.

Culture and Media Studies

Media, culture and life styles of the contemporary era, including studies of Hong Kong popular culture, life styles and the body, modern religious practices, mass tourism, marriage and the family, gender and sexuality.

Social Problems and Policy Studies

Analysis of social problems with particular emphasis on criminal justice, including studies of criminal behaviour, criminal justice, policing, corruption and computer crime, gender and crime.

Departmental Requirements

Students are required to participate in Departmental seminars and make presentations.

Postgraduate Admission Advisor

Dr. T. Wong Tel: 2859 2052 Fax: 2857 4074 Email: socidept@hkucc.hku.hk

Department of Statistics and Actuarial Science

<http://www.hku.hk/statistics/>

Major Research Areas

Statistics

Time series analysis; financial time series, linear and nonlinear time series, time series with conditional heteroscedasticity; chaos in a random environment; data analysis; data mining; econometrics; financial statistics; social statistics; multivariate analysis; robust methods; outliers and influential observations; distribution theory; asymptotic techniques; resampling methods; bootstrap methods; Monte Carlo methods; parametric, semiparametric and non-parametric modeling; goodness-of-fit test and model checking; confidence sets; sampling techniques; survival analysis with applications to clinical trials, biomedical studies; statistical genetics; DNA profiling; forensic statistics; tanking methods; capture-recapture studies; demography; Bayesian analysis; linear models, generalized linear models and generalized linear mixed models; stochastic processes.

Actuarial science

Actuarial applications of financial economic theory; actuarial evidence in courts; actuarial mathematics; analysis of correlated aggregate claims in insurance business; asset allocation; analysis of heavy-tailed claims; credit risk; control and filtering of stochastic processes with applications to actuarial science; graduation methods for mortality data; insurance risk models; stochastic interest rate models; option pricing theory; retirement income arrangement; risk management; risk measure; risk theory; stochastic investment models; value at risk.

Postgraduate Admissions Advisor

Prof. T.W.K. Fung Tel: 2859 2466 Fax: 2858 9041 Email: ywcheung@hku.hk

Teaching Centres and Institutes



MPHil and PhD Studies at The University of Hong Kong 2004-2005

Centre of Asian Studies

<http://www.hku.hk/cas/>

Major Research Areas

Migration and the Chinese diaspora; entrepreneurship and business networks; economic and business history of China, Hong Kong and Japan (particularly studies of merchants, business corporations and economic culture); history of modern China and Hong Kong; China-ASEAN and China-India relations; historical relations between China and Southeast Asia; Hong Kong culture and society.

Postgraduate Admissions Advisor

Dr. Elizabeth Sinn Tel: 2859 2460 Fax: 2559 3185 Email: casgen@hkucc.hku.hk

Centre of Buddhist Studies

<http://www.buddhism.hku.hk>

Major Research Areas

Chinese Buddhism

History, doctrine, philosophy and literature; eight schools; textual study; impact of Buddhism on Chinese culture, philosophy, thought, religion, literature, arts and social customs; revival of Buddhism in contemporary China.

The Vinaya in India and China

Origin, formation and transformation of the monastic code in India; development of different dimensions of the Vinaya (the Sravaka Pratimoksa, the Bodhisattva precepts, and the Pure Regulations) in China in response to cultural, political, geographical and social diversities.

Theravada and Mahayana Buddhism

Any aspect of doctrine, philosophy and history.

Buddhism as applied to the social sciences perspective

Counselling, palliative care, mediation and psychotherapy; Buddhist social philosophy; the value of Buddhist morality in modern time, modern interpretations of Buddhism.

Centre Requirements

1. Presentation of seminars.
2. Specific language training is required when necessary.

Postgraduate Admissions Advisor

Ven. Dr. Jing Yin Tel: 2859 2847 Fax: 2549 3040 Email: buddhism@hku.hk

English Centre

<http://ec.hku.hk>

Major Research Areas

Reading and listening comprehension; writing; discourse analysis; genre analysis and pragmatics; classroom research; learner-centred curricula; teaching English for specific purposes; language testing; language programme evaluation; individual learner differences in second language acquisition; psychology and language learning; personality and language learning; language education policies in Hong Kong; sociology of academic disciplines; discourse practices in academic disciplines; language contact; pidgin and creole languages; indigenous varieties of English; dictionaries; autonomy in learning; learners' knowledge and beliefs; computers in language teaching and research.

Centre Requirement

Presentation of a seminar before confirmation of candidature.

Postgraduate Admissions Advisor

Dr. P. Benson Tel : 2964 5798 Fax: 2547 3409 Email: pbenson@hkucc.hku.hk

Institute of Human Performance

<http://www.hku.hk/ihp/>

Research Areas

Physiological

Exercise physiology (including respiratory control; measurements of health, habitual activity and fitness in young and elderly populations; physiology of rowing; assessments of performance); pediatric exercise and sports science; physiological and medical aspects of children's response to exercise and physical inactivity.

Psychological

Implicit motor learning; anxiety and human performance; movement disorders and rehabilitation (especially in Parkinson's disease and stroke); human performance in extreme environments; psychological skills training; peak performance; coach education.

Management

Management, planning and governance of sport and recreation service delivery organizations; relationship of volunteer and professional sports administrators; board performance in the nonprofit sector; volunteer development and management.

Postgraduate Admissions Advisor

Dr. R. Masters Tel: 2817 9352 Fax: 2818 8042 Email: mastersr@hku.hk

Journalism and Media Studies Centre

<http://jmsc.hku.hk>

Major Research Areas

Media law and ethics; new media; literary journalism; journalism in Greater China; international journalism; environmental journalism; cultural studies of journalism and the media; business and finance journalism; journalism education.

Centre Requirements

Applicants may be required to take a qualifying examination. Specific language training is required when necessary.

-Postgraduate Admissions Advisor

Prof. Y.Y. Chan Tel: 2964 5733 Fax: 2858 8736 Email: jmsc@hku.hk

Kadoorie Agricultural Research Centre

<http://www.hku.hk/karc/>

Major Research Areas

Applied animal studies

Chicken gene bank of native Chinese chickens; recycled clean-water system for intensive aquaculture for marine fish and shrimp; quality analysis of chicken meat; animal feeds and vaccination programmes for chicken and fish farming.

Applied plant and ecological studies

Forest ecology, dispersal of seeds by wild animals; hill area development (biomass production and economics, hill fires and ecological succession); organic farming methods; sustainable agriculture and biological control of crop pests; stream ecology.

Applied geology and geotechnics

Slope stabilization; management of water and soil resources; soil erosion and flood control.

Applied food technology

Fermentation technology of Chinese soy sauces; flavour and contaminants in soy sauces

Postgraduate Admissions Advisor

Prof. D.K.O. Chan Tel: 2299 0800/2488 5000 Fax: 2559 9114

Institute of Molecular Biology

<http://www.hku.hk/hkuimb/>

Major Research Areas

Identification of genes that cause cancer; birth defects; viral infections; diabetes mellitus; aetiology of diabetic cataract, retinopathy, nephropathy and neuropathy; functions of endothelin-1 in development, in the nervous system, and in the vascular system; the role of various growth factors in the development of the nervous system and in neuropathy; and diagnosis and treatment of liver cancer. Techniques employed include recombinant DNA, cell culture and microinjection, gene therapy, proteomics, transgenic mouse, and various biochemical and enzyme assays.

Institute Requirement

Presentation of seminars. Publication of papers is strongly encouraged.

Postgraduate Admissions Advisor

Prof. H.F. Kung Tel: 2299 0750 Fax: 2817 1006

Social Sciences Research Centre

<http://www.ssrc.hku.hk>

Major Research Areas

Computerized survey data collection; internet and world-wide web policy; telephone survey methodology; longitudinal surveys; opinion and electoral polls; Bayesian statistics; social and medical statistics; privacy and data protection.

Postgraduate Admissions Advisor

Dr. John Bacon-Shone Tel: 2859 2412 Fax: 2858 4327 Email: johnbs@hkucc.hku.hk

The Swire Institute of Marine Science

<http://www.hku.hk/ecology/swims/>

Major Research Areas

Coastal ecology, particularly of rocky shore organisms; behaviour of intertidal herbivores; marine algae; ecology of local corals and coral reef fish; mangrove ecology; fish reproduction and behaviour; fisheries and maricultures; effects of pollution upon intertidal organisms; environmental toxicology; ecophysiology and the identification of biomonitors; studies of offshore benthos; coastal zone management; identification of potential new marine parks and reserves.

Postgraduate Admissions Advisor

Dr. G. A. Williams Tel: 2299 0604/2809 2551 Fax: 2809 2197 Email: hrrbwga@hkucc.hku.hk

Centre of Urban Planning and Environmental Management

<http://www.hku.hk/cupem/>

Major Research Areas

Planning and managing sustainable cities and regions; urban and regional development in China (particularly Pearl River Delta Region and Shanghai); planning and management of urban transport systems with emphasis on sustainable transport systems; housing policy and planning and the development of sustainable housing systems; information technology applications in urban planning, including GIS; environmental policy studies in Hong Kong and the Asia-Pacific region; ecological modernisation theory and processes; sustainability assessment methods; corporate environmental governance and business-environment issues; planning sustainable communities; globalization and urban development processes; population and sustainability issues in Hong Kong; high density urban development and management.

Centre Requirement

Presentation of seminars.

Postgraduate Admissions Advisor

Prof. Peter Hills Tel: 2859 2720 Fax: 2559 0468 Email: phills@hkucc.hku.hk

Location of Offices

MPhil and PhD Studies at The University of Hong Kong 2004-2005



	Location	Telephone No.	Fax No.
Administrative Offices			
Academic Services Enquiry Office	UG-05, Knowles Building	2859 2432 2859 2433	2858 5454
Finance and Enterprises Office	1st floor, Knowles Building	2859 2336	2858 8566
Graduate School	Room P403, Graduate House	2857 3470	2857 3543
Faculty Offices			
Architecture	Room 801, 8th floor, Knowles Building	2858 2149	2857 2852
Arts	G14, Main Building	2859 2733	2548 5231
Business and Economics	7th floor, Meng Wah Complex	2241 5544	2549 3735
Dentistry	6th floor, Prince Philip Dental Hospital, 34 Hospital Road, Sai Ying Pun	2859 0347	2517 0544
Education	Room 125, 1/F, Hui Oi Chow Building	2241 5728 2857 8254	2547 1924
Engineering	Room 529, 5th floor, Haking Wong Building	2859 2803	2546 9142
Law	4th floor, K.K. Leung Building	2859 2953	2559 5690
Medicine	6th floor, Academic and Administration Block, Faculty of Medicine Building, 21 Sassoon Road	2819 9214	2855 9742
Science	G12, Chong Yuet Ming Physics Building	2859 2681 2859 2683	2858 4620
Social Sciences	Room 104, 1st floor, Meng Wah Complex	2241 5539 2241 5370 2859 2980	2517 0806
Teaching Centres and Institutes			
Centre of Asian Studies	Tang Chi Ngong Building	2859 2465	2559 5884
Centre of Buddhist Studies	6th floor, Meng Wah Complex	2859 2847	2549 3040
English Centre	7th floor, K.K. Leung Building	2859 2004	2547 3409
Journalism and Media Studies Centre	G24, Eliot Hall	2964 5733	2858 8736
Kadoorie Agricultural Research Centre	Lam Kam Road, Shek Kong, Yuen Long, N.T.	2488 5000	2488 5285
Institute of Molecular Biology	8 Sassoon Road, Pokfulam	2816 8405	2817 1006
Social Sciences Research Centre	8th floor, Meng Wah Complex	2857 8333	2858 4327
The Swire Institute of Marine Science	Shek O	2809 2179	2809 2197
Centre of Urban Planning and Environmental Management	8th floor, Knowles Building	2859 2721	2559 0468
Student Services			
Office of Student Affairs	4th floor, Meng Wah Complex	2859 2305	2546 0184

Further enquiries relating to research postgraduate programmes may be directed to

The Graduate School

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The University of Hong Kong

Pokfulam Road, Hong Kong

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Homepage: <http://www.hku.hk/gradsch>

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This Guide contains information known as of 30 September 2003.

As changes may have taken place since then, readers are advised to visit the Graduate School homepage for the most updated information.



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