Principal Officers of the University

The Chancellor: His Excellency the Right Honourable Christopher PATTEN
The Chairman of the Council: Sir Sze-yuen CHUNG, GBE, JP
The Vice-Chairman of the Council: The Honourable CHENG Hon-kwan, OBE, JP
The Treasurer of the Council: The Honourable LAU Wah-sum, OBE, JP
The Vice-Chancellor and President: Professor Chia-Wei WOO, BS, MA, PhD
The Pro-Vice-Chancellor for Academic Affairs: Professor Shain-Dow Kung, BS, MS PhD
The Pro-Vice-Chancellor for Administration and Business: Mr. Ian F.C. MACPHERSON, CBE, MA
The Pro-Vice-Chancellor for Research and Development: Professor Thomas E. STELSON, BS, MS, DSc

Handbook for Prospective Postgraduate Students
for entry in September 1993

This Handbook is published for the guidance of postgraduate students who wish to enter the University in September 1993. The information herein may be changed from time to time by the appropriate University Authority. In the event of inconsistency between information contained in the Handbook and a University regulation or programme, or where an interpretation of the Handbook is required, the decision of the University Authority shall be final. The Handbook does not form any part of a contract between any person and the University.

All enquiries should be addressed to:

The Director of Admissions, Registration and Records
The Hong Kong University of Science and Technology
Clear Water Bay
Kowloon
Hong Kong

Telephone: 358-6622
Facsimile: 358-0769
There are two kinds of ongoing transitions in Hong Kong. A political transition is taking place to prepare Hong Kong for self-governance after 1997. At the same time, an economic transition has been occurring quietly, to advance Hong Kong from a labour-intensive economy to a technology-based society. These two transitions promise great opportunities to people who are highly motivated, well educated, and caring.

Hong Kong has very little in the way of natural resources. Our greatest asset is our people—an intelligent, hard-working, and versatile people, a people perfectly placed to take advantage of higher education.

Over the last two decades, the meaning of “higher education” has changed in Hong Kong. A baccalaureate degree provides a young person with a licence, so to speak, to enter the world of high technology and modern management. To become truly competitive and to contribute in leadership roles, however, a strong postgraduate education may soon become a prerequisite. This has been the common experience of economically advanced countries, and is becoming increasingly evident in all the newly industrialised economies—notably Singapore, South Korea, and Taiwan.

The Hong Kong University of Science and Technology (HKUST) has been created to help meet Hong Kong’s needs for economic development in and beyond these times of transition. The University comprises four Schools and, immediately upon opening in October 1991, courses for master’s and doctoral degrees began in all four. Eventually some 30% of the University enrolment will be at postgraduate levels.

All the leading academic staff appointed at HKUST so far have served as senior professors in major research universities around the world, or in equivalent posts in industrial laboratories. HKUST’s staff possess rich experience in directing postgraduate and postdoctoral studies, have published extensively in professional journals, and are highly respected internationally. They are precisely the kind of scholars under whose direction numerous students from Hong Kong have pursued advanced study overseas. In support of their efforts, both the Government and the private sector have been generous in ensuring that this new technological University is well equipped for state-of-the-art research work.

We welcome applications from graduates of our fine sister institutions in Hong Kong, and graduates of strong institutions elsewhere. To the latter, I wish to add that Hong Kong is a great place to live and a land of opportunities. In return, international students will help to broaden our vistas and enhance Hong Kong’s position as one of the world’s great metropolises.

We also invite applications from those who are currently employed, to come either full-time or part-time. These mature and already contributing members of Hong Kong’s society are an important component of HKUST’s postgraduate student body. The real-life experiences they bring enrich the everyday education of their fellow students. Also, they serve as links to industry, commerce, the professions, and public services, with which the University’s academic staff expect to collaborate closely.

The coming decade will see great moments in the history of Hong Kong. Great moments have always been made by ordinary people. We in Hong Kong are fortunate to be the ordinary people who can, with vision and determination, capture these great moments and make them our own. To do so in hand in hand with people of like mind, to do so while creating a world-class university, and to do so in an idyllic environment, is to live life to its fullest.

Friends, if you share our love for learning, our faith in the people of Hong Kong, and our sense of mission and excitement, join us.

**HANDS ON THE PRESENT AND EYES FOR THE FUTURE**

Chia-Wei WOO
Vice-Chancellor and President
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The objectives of the University are—

(a) to advance learning and knowledge through teaching and research, particularly—

(i) in science, technology, engineering, management and business studies; and

(ii) at the postgraduate level; and

(b) to assist in the economic and social development of Hong Kong.

The Hong Kong University of Science and Technology Ordinance, 1987

I. | THE UNIVERSITY

The Hong Kong University of Science and Technology (HKUST) was incorporated in April 1988 as a publicly funded university. It was established to be a world-class technological university dedicated to the advancement and dissemination of learning and to research scholarship. Its graduates will be men and women of mature judgement and generous spirit who will contribute to Hong Kong's economic and social well-being and promote research, development, and entrepreneurship in the Asian-Pacific region.

To accomplish these goals, HKUST places emphasis on teaching - the dissemination of knowledge, on research - the creation of knowledge, and on service - the application of knowledge.

The University comprises the School of Science, the School of Engineering, the School of Business and Management, and the School of Humanities and Social Science. The first three Schools offer undergraduate programmes and postgraduate programmes through to the doctorate, while the School of Humanities and Social Science offers only advanced studies leading to postgraduate degrees up to the doctorate. At the undergraduate level, the School of Humanities and Social Science provides courses in the humanities and social sciences to students in the other three Schools.

Several Research Institutes have been established to promote interdisciplinary research and collaboration among the different Schools and Departments. The Research Centre is building strong connections with the private and public sectors through contractual and applied research. Extensive interaction with industry at the undergraduate and postgraduate levels is also being developed.

The medium of instruction is English.
The Campus

The campus occupies a 60-hectare site of sweeping beauty on the northern end of Clear Water Bay Peninsula at Tai Po Tsai. Situated on the slopes along the shore, the campus grounds are terraced to afford buildings on all levels with unobstructed panoramic views of the sea, looking east and northeast towards Port Shelter and the Sai Kung area. The main academic complex is situated on the highest level of the slope, while student residential halls, outdoor sports facilities, and other student amenities are close to the water and the natural marina.

The campus is being built in three phases. Phase I was completed in July 1991 with a capacity of 2,000 full-time equivalent (FTE) undergraduate and postgraduate students. Phase II, to bring capacity to about 7,000 FTE students, will be completed by 1993. The Royal Hong Kong Jockey Club has generously donated HK$1,926 billion towards the capital construction costs, and is also responsible for managing the overall construction project. With the completion of Phase III, (contingent upon the Government's approval of construction funds), the University will be able to accommodate a student body of 10,000 FTE students.

University Organisation

At the head of The Hong Kong University of Science and Technology is the Chancellor, the Governor of Hong Kong, with the University Council as the supreme governing body. The University Senate is the supreme academic body.

 Administratively, the Vice-Chancellor/President is the chief executive officer and the three principal branches of the University are Academic Affairs, Administration and Business, and Research and Development, each headed by a Pro-Vice-Chancellor.

Within Academic Affairs are the four Schools which comprise the academic heartland of HKUST, each School being divided into Departments or Divisions. As well, there are a number of academic service units and research units located administratively in the branch.

The Administration and Business Branch is concerned with the non-academic administrative and financial operation of the University.

Research and Development focuses on research administration and, particularly, on undertaking contractual and applied research relevant to Hong Kong's technological and socio-economic development. This branch of HKUST is unique in Hong Kong's universities and demonstrates the strong research focus of the institution.

Further information on all of these units of the University, as well as the University Ordinance and the Statutes of the University Senate which provide the legal basis for HKUST, may be found in the University Calendar.

Academic Faculty

The University recruits worldwide for faculty who have achieved excellence in their respective fields and are highly respected as teachers and researchers. They include both established and promising younger scholars who have demonstrated a high degree of professional competence. They have broad intellectual interests, and wish to work collaboratively with colleagues in other fields and interact with professionals in industry, commerce, and the public services. These men and women care about Hong Kong, its people and its future. Most importantly, they care about their students.

The University began instruction in 1991 with some 100 faculty, a large percentage of whom were in senior positions. By the end of 1992 over 200 academics had been appointed, and the academic staff is expected to grow to more than 900 before the turn of the century.
Students

The University seeks highly qualified and motivated young men and women who have wide interests and have received a well-rounded secondary education. They should be active participants rather than spectators in diverse activities, and possess great potential in addition to having achieved good grades.

The University’s goal is to engage its students in a continuous dialogue, to challenge them intellectually, and to encourage them to think on their own and to learn how to learn. Thus the University’s graduates will become competent professionals, innovative leaders in their fields, adaptable and versatile generalists, and sensitive, caring citizens.

Postgraduate Degrees

The University offers two types of higher degrees - research degrees and coursework degrees. The research degrees available are the Master of Philosophy (MPhil) and the Doctor of Philosophy (PhD). The coursework degrees are the Master of Arts (MA), the Master of Business Administration (MBA) and the Master of Science (MSc).

Research degrees may include a coursework component whilst a coursework degree may include a research component.

Postgraduate Programmes

The University offers postgraduate programmes leading to master’s and doctoral degrees in all four Schools.

School of Science

- Master of Science (MSc)
  - Mathematics
  - Physics
- Master of Philosophy (MPhil) and Doctor of Philosophy (PhD)
  - Biochemistry
  - Biology

School of Engineering

- Master of Science (MSc), Master of Philosophy (MPhil) and Doctor of Philosophy (PhD)
  - Chemical Engineering
  - Civil and Structural Engineering
  - Computer Science
  - Electrical and Electronic Engineering
  - Industrial Engineering
  - Mechanical Engineering

School of Business and Management

- Master of Business Administration (MBA)
  - Accounting
  - Business Information Systems
  - Economics
  - Finance
  - Management
  - Marketing
- Doctor of Philosophy (PhD)
  - Accounting
  - Business Information Systems
  - Economics
  - Finance
  - Management

School of Humanities and Social Science

- Master of Philosophy (MPhil)
  - Humanities
  - Social Science
- Master of Arts (MA)
  - Humanities
  - Social Science
- Doctor of Philosophy (PhD)
  - Humanities

Joint Degree Programmes

Interdisciplinary study and research will be encouraged and collaborating Departments will offer programmes leading to joint interdisciplinary degrees. Three of these joint programmes are:

- Master of Arts (MA) in Chinese Studies
- Master of Science (MSc) in Biotechnology
- Master of Science (MSc) in Manufacturing Engineering
II. UNIVERSITY ENTRANCE REQUIREMENTS

Requirements for Admission

Applicants seeking admission to a postgraduate degree programme should have:

1. obtained a first degree from this University or an approved institution, or obtained an approved equivalent qualification;

2. satisfied the School and Department concerned as to their fitness to pursue the postgraduate programme; and

3. satisfied the School and Department concerned as to their English language ability to undertake the postgraduate programme.

To be accepted as candidates for the PhD degree, applicants should normally have:

1. obtained a master's degree from this University or an approved institution, or presented evidence of satisfactory work at the postgraduate level on a full-time basis for at least one year, or on a part-time basis for at least two years;

2. satisfied the School and Department concerned as to both their chosen subject of research and their fitness to undertake research into it; and

3. satisfied such other requirements as may have been established by the School and Department concerned, which may include qualifying examinations, both written and oral.
III. APPLICATION AND SELECTION PROCEDURES

Postgraduate Programmes in 1993

For the Fall Semester 1993, The Hong Kong University of Science and Technology will admit postgraduates to the following programmes:

<table>
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<tr>
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<th>Code Number</th>
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<tr>
<td>Biochemistry</td>
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<tr>
<td>MPhil M110</td>
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<tr>
<td>Biology</td>
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<tr>
<td>MPhil M120</td>
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<tr>
<td>PhD D120</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>MPhil M130</td>
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<td>PhD D130</td>
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<tr>
<td>Mathematics</td>
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<td>MSc M141</td>
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<tr>
<td>MPhil M140</td>
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<td>PhD D140</td>
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<tr>
<td>Physics</td>
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<td>MSc M151</td>
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<td>MPhil M150</td>
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<td>PhD D150</td>
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<tr>
<th>School of Engineering</th>
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<tr>
<td>Chemical Engineering *</td>
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<td>MSc M211</td>
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<td>MPhil M210</td>
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<td>PhD D210</td>
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<tr>
<td>Civil and Structural Engineering</td>
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<td>MSc M221</td>
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<td>MPhil M220</td>
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<td>PhD D220</td>
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<tr>
<td>Computer Science</td>
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<td>MSc M231</td>
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<td>MPhil M230</td>
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<td>PhD D230</td>
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<tr>
<td>Electrical and Electronic Engineering</td>
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<td>MSc M241</td>
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<td>MPhil M240</td>
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<td>PhD D240</td>
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* Under development
Application for Admission in 1993

Application for admission to postgraduate programmes is open to prospective students who expect to satisfy the entrance requirements of the University and of the postgraduate programme selected.

Application forms are available directly from:

Admissions, Registration and Records Office
The Hong Kong University of Science and Technology
Clear Water Bay
Kowloon
Hong Kong

The closing date for the return of the application forms will be 15 March 1993, but late applications may be considered.

Applicants must submit the following documents:

1. a completed application form, including a one-page statement on study plans and career goals;
2. two letters of recommendation mailed directly to the Director of Admissions, Registration and Records;
3. officially certified academic transcripts of undergraduate studies (and postgraduate studies, if any); and
4. a copy of the bank pay-in slip confirming that the application fee of HK$120 has been paid into the bank account of "the Hong Kong University of Science and Technology" through a branch of one of the following banks: Bank of China - Hong Kong Branch or Hang Seng Bank Ltd.

For overseas applicants, if official transcripts are in a language other than English or Chinese, a certified translation into English must be provided. In lieu of the bank pay-in slip confirming payment of application fee, overseas applicants may submit a bankdraft or certified bank cheque of an amount equivalent to US$16.00 with the completed application form.
Selection Procedures

Selected applicants may be invited for interview. Successful applicants will receive an offer of admission, and may be required to satisfy specified conditions. Candidates receiving an offer will be expected to accept or decline by a specified date.

Students from Overseas

The University welcomes applications from overseas students who are seeking admission to studies at the postgraduate level.

Students from overseas must obtain a visa in order to study in Hong Kong. Applications should be made well in advance at a British Consulate or High Commission or Visa Office, or by writing directly to: The Hong Kong Immigration Department, 2/F, Tower II, 7 Gloucester Road, Wanchai, Hong Kong. Applicants will be required to show sufficient financial resources to cover expenses for their period of study. Applicants must also nominate a sponsor who is resident in Hong Kong, aged over 21, to whom they are known personally. Applicants who have difficulty in nominating a sponsor in Hong Kong may apply to the Admissions, Registration and Records Office for the University to act in this capacity.

A postgraduate living in a University Residential Hall will need at least HK$40,000 (US$1.00 = HK$7.80) to cover tuition fees, food and lodging expenses for a period of nine months from early September 1993 to early June 1994. This sum does not include expenses for books, equipment, entertainment, and other incidental and personal expenses. Fees and charges as well as other expenses are expected to increase on an annual basis.

On-campus residential accommodation is available but not guaranteed for any student. Expenses for those unable to obtain on-campus accommodation will be at least HK$60,000 for a nine-month period.

Double Registration

Students registered for a degree at this University (full-time or part-time) may not register for another qualification at this or any other tertiary institution unless they have obtained approval, in writing, from the University.

Students should note that student enrolment lists will be compared with those of other post-secondary institutions from time to time. If students are found to be registered elsewhere for another qualification without written approval they may be required to discontinue their studies at this University.
IV. FEES, OTHER EXPENSES, AND FINANCIAL ASSISTANCE

Tuition and Other Fees

1. An application fee of $120 is charged for each application for admission in 1993-94 to the University, payable at the time of submission of the application form.

2. The tuition fee for postgraduate students (except for those in the MBA programme) admitted for the academic year 1993-94 is $17,000 per annum for full-time students and $4,250 per semester for part-time students. The fee may be paid at the beginning of the academic year at programme registration or in equal instalments for each semester.

3. The fee structure for full-time and part-time MBA students is described in the School of Business and Management brochure.

4. In addition, each new student is required to pay a deposit of $300 as caution money on first registration. Charges will be made against this deposit if there are any unpaid claims against the student, such as outstanding library dues. The balance will be transferred to the graduation fee, or refunded if the student leaves the University before graduation.

5. Students are likely to join the Students' Union and pay entry and annual fees. These fees will be set by the Students' Union and collected by the University on behalf of the Students' Union.

6. Students may be required to pay late charges for failure to complete certain University procedures by stipulated deadlines. These will include delays in paying tuition fees and completing registration procedures, overdue library books, etc. Late charges will be levied in accordance with the rules and regulations set by the respective offices.

7. There are other fees and charges such as the graduation fees, re-examination fees, transcript fees, replacement charges for lost student identity card, etc. Detailed information will be available on registration or from the various administrative offices concerned.
Residential Hall Charges

For the 1993-94 academic year, the postgraduate Residential Hall charges will be approximately HK$1,000 per month. The Residential Hall charges do not include the costs of meals.

General Expenses

In addition to tuition, other fees, and living expenses, students should be prepared for general expenses such as books, stationery, and items of equipment.

Financial Assistance

The sources of financial support for students of the University include the following:

Government Grant and Loan Scheme

Full-time students at publicly funded tertiary institutions who have resided or have had their home in Hong Kong continuously for three years immediately prior to the commencement of their programme of study are eligible to apply for financial aid under a Government student finance scheme. The scheme is administered by the Government Student Financial Assistance Agency.

Financial assistance is offered in the form of grants and/or loans. Grants are given for tuition fee and academic expenses; loans are approved for living expenses. Awards are means-tested so that the amount awarded is related to family disposable income. Students are expected to repay their loans at an interest rate of 2.5% per annum within a specified period after graduation or upon leaving the University.

Application forms are available either from the Government Student Financial Assistance Agency at the Queensway Government Offices, Ground Floor, Low Block, 66 Queensway, Hong Kong, or from the Student Affairs Office of the University.

Students with financial difficulties are urged to apply for assistance under this scheme at the beginning of the academic year. Further details are available at the Student Affairs Office.

University Loans and Bursaries

Students with additional financial needs may apply for loans and bursaries administered by the University. In general, these funds are used to supplement, but not substitute for, Government financial assistance. Details of loans and bursaries are available at the Student Affairs Office.

Scholarships and Prizes

The University administers a number of scholarships and prizes on behalf of individual and corporate donors. Most are awarded to students, without application, on the strength of academic merit and the recommendations of a school or department. Other scholarships may have conditions specified by the donor. Further details are available at the Student Affairs Office.

Postgraduate Assistantships

The University awards Postgraduate Assistantships to full-time postgraduate students in return for assisting in teaching and research. In 1992-93, these are at the rates of $9,000 or $4,500 per month, depending on the workload assigned.
V. ACADEMIC REGULATIONS

The academic regulations define the structure of the programmes of study at The Hong Kong University of Science and Technology and govern each student's academic progress. All students are responsible for their individual conduct and for their adherence to the regulations.

Each student is enrolled in a specific programme offered by an academic unit referred to as the student's major department, and is subject to the requirements of both that department and the University. Exceptions from some specific requirements are possible, but only in well justified circumstances. Written permission must be sought from the head of the major department.

Postgraduate programme requirements comprise course credits, thesis residency and special examinations. Master of Science, Arts, and Business Administration degrees (MSc, MA, and MBA) are earned primarily through course credits, in taught programmes. The Master of Philosophy and Doctor of Philosophy degrees (MPhil and PhD) are earned through research programmes in which the primary activity is research leading to an acceptable thesis. These programmes may also include course credit requirements and special examinations.

Postgraduate Programmes

The Master of Science (MSc), Master of Arts (MA) and Master of Business Administration (MBA) degrees are basically coursework degrees, although project work and a report may also be required. The Master of Philosophy (MPhil) and Doctor of Philosophy (PhD) degrees are basically research degrees, although usually coursework is also required.

Duration of Study

Most postgraduate degrees are available on a part-time or full-time basis. The taught programmes leading to the MSc, MA and MBA degrees may be the most suitable for students
interested in part-time study. The MPhil and PhD are research degrees, and students in some disciplines are required to participate in research on a full-time basis.

Postgraduate students may apply to their department, prior to the beginning of any semester, for transfer from full-time to part-time status or from part-time to full-time status. When such a transfer is allowed, the remaining degree requirements will be determined.

For full-time students, the normal times for the completion of MSc, MA, and MPhil degrees are one and a half years, and two years for the MBA. For the PhD degree it is four years after the first degree with a reduction of one and a half years if a relevant master's degree is earned prior to entering the PhD programme. Part-time students may expect to take at least twice the time of full-time students. Students may apply for reductions to these periods.

The maximum time for degree completion is five years for a master's degree and eight years for a PhD degree (with a one and a half years' reduction in the circumstances noted in the preceding paragraph). The time limits for part-time programmes are the same as for full-time programmes, and hold whether or not the student is in continuous registration.

Course Requirements

Credit requirements for postgraduate degrees apply only to course and project work, not to thesis research. For the MSc, MA, MPhil and PhD programmes, the normal full course-load is 10 credits per semester, with the maximum part-time load at 6 credits per semester. A maximum of two undergraduate courses may be used for postgraduate degree credit, and these should be at the 300 level. Of the two, only one may be from the student’s major department. For the corresponding MBA requirements see the entry for the School of Business and Management.

For all postgraduate programmes, no course with a grade less than C may be counted towards a degree, and the average grade obtained in the courses used to satisfy degree requirements must at least be B. Only two courses in a degree programme may be retaken, and each may be repeated only once.

Postgraduate Grades

Students receive a letter grade in each course in which they are enrolled. Grades range in equal increments from A+ to F, with F carrying zero credit. The grades C- to D-, and E, are not used as course grades for all postgraduate courses and other courses that count towards the degree. The grades to be used are shown in the following table.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Excellent Performance</td>
</tr>
<tr>
<td>A</td>
<td>Good Performance</td>
</tr>
<tr>
<td>A-</td>
<td>Marginal Performance</td>
</tr>
<tr>
<td>B+</td>
<td>Failure</td>
</tr>
<tr>
<td>B</td>
<td>Pass (ungraded)</td>
</tr>
<tr>
<td>B-</td>
<td>Incomplete</td>
</tr>
<tr>
<td>C+</td>
<td>Withdrawal Without Penalty</td>
</tr>
<tr>
<td>C</td>
<td>Permitted to Proceed</td>
</tr>
</tbody>
</table>

An Incomplete (I) grade must be converted to a regular grade at the beginning of the next semester, otherwise it is converted to F. This grade is used when work is necessarily delayed through no fault of the student.

The Withdrawal Without Penalty (W) grade is given when a student withdraws from a course after the “add-drop”
period and prior to six weeks before the commencement of examinations.

When progress on thesis or project work is satisfactory but not scheduled for completion at the end of a semester, the Permitted to Proceed (PP) grade is utilised.

Residence Requirements

Normally, a full-time research student is expected to be on campus full-time so as to be able to participate fully in the programme, although students may be required to conduct off-campus field or laboratory work.

Normally, the residence requirement for an MPhil degree is three full-time semesters and that for a PhD degree is eight. A semester of residency of a part-time student counts as a one-half semester of residency. Students who have not completed their thesis work should continue their registration on a full or part-time basis, without interruption.

These residence requirements do not apply to taught postgraduate programmes which are governed by their course credit requirements.

MSc and MA Programmes

These are coursework degrees for which students must fulfil a minimum credit requirement of 30. Students may also undertake a project as described in the departmental Calendar entries. Projects require the submission of a written report and carry credit, as specified by the department, to a maximum of nine. The reports will be read by two faculty members, one of whom is the supervisor, and are graded “Pass” or “Fail”. A “Pass” grade may be denoted as “Pass with Distinction” when appropriate.

MPhil Programmes

In addition to coursework requirements, if any, described in the departmental Calendar entries, MPhil students will undertake a programme of thesis research under the direction of a supervisor appointed by the department.

Each MPhil student is, on the commencement of study, assigned an interim supervisor. This supervisor works with the student to map out a tentative programme of study and research, and to identify a research supervisor. The research supervisor, when appointed, replaces the interim advisor. When the thesis is ready for examination, to the satisfaction of both the student and the supervisor, the department head will appoint an examination committee consisting of three faculty members. One shall be the supervisor and another shall be appointed as chairman. The committee shall examine the thesis and conduct an oral thesis examination. Theses will be graded “Pass” or “Fail”. A “Pass” grade may be denoted “Pass with Distinction” when appropriate.

PhD Programmes

PhD programmes focus on original research by the student, but most also require coursework. Doctoral students proceed from admission to the programme, to candidacy for the degree, and then to defence of the thesis; and each has a thesis supervisor who oversees the student’s research. Candidacy is obtained by the successful completion of qualifying examinations. The thesis examination is conducted by a committee of five members: the thesis supervisor, two academic staff members from the department, one academic staff member from outside the department or discipline, and one additional member from outside the department. The thesis examination committee is chaired by an individual appointed by the Committee on Postgraduate Studies of Senate who is not one of the five members. Theses will be graded “Pass” or “Fail”. A “Pass” grade may be denoted “Pass with Distinction” when appropriate.
University Policy on the Use of Human and/or Animal Subjects in Educational, Research or Service Programmes

There are complex legal, regulatory and operational standards applicable to the care and use of human and/or animal "subjects" in educational and research programmes. The term "subject" means that the person or animal is subjected to some planned program activity for the purpose of effecting response or developing new understanding related to programme objectives.

Comprehensive policies are currently under development. Until such policies are reviewed and approved, an interim policy is in effect, and researchers plan on a minimum delay of at least one month before approval can be arranged.

VI. RESEARCH CENTRE, INSTITUTES AND CENTRAL RESEARCH FACILITIES

The University has established a number of research institutes and centres to identify and provide focus for particular research emphases at HKUST. All cut across traditional disciplinary boundaries, and provision is made for the full range of research and specialised research services from developmental and applied work to the most basic of investigations. These centres and institutes, together with the academic departments, provide students with a wide range of excellent research opportunities at the undergraduate as well as postgraduate levels, from basic research in single disciplines to projects in applied research with the collaboration of several departments. Descriptions of the research units established at this time follow.

Research Centre

The Research Centre has been established to undertake multidisciplinary, contractual and applied research, the results of which may lead more directly and quickly to implementation and economic benefit. Some objectives are to conduct mission-oriented scientific, engineering, industrial, and management research relevant to Hong Kong's technological and socio-economic development; establish and manage research facilities that are critical to the need for development of technology in Hong Kong; incubate critical technologies required by government and industry; establish research and scientific databases; provide institutional management and planning support for research to faculty members; co-ordinate collaborative overseas research programmes; and develop and maintain research sponsorship and contractual relationships.

The Research Centre conducts a programme of wide-ranging R&D initiatives to maintain its research vitality and to inject cutting-edge technology into its research. Research topics and projects are chosen with the collaboration and assistance of faculty members. The selection process gives consideration to the impact of research results on the local community, availability of the University's skills for conducting outstanding research, involvement of graduate students and academic faculty, and potential to strengthen existing areas of activity or to build areas of future research strength.
The following list provides examples of technology and research initiatives of the Research Centre:

- **Environment**
  - Hong Kong Ecosystem Databank and Processing Centre
  - Hong Kong/Pearl River Delta contaminated sediment research
  - Pollutant source identification; air quality index and prediction
  - Abatement of diesel air pollution
  - Landfill modelling
  - Immobilised microalgae

- **Energy**
  - Boundary-layer wind tunnel
  - Productive electrochemical desulphurisation of flue gas
  - Software and instrumentation for power plants
  - Damage assessment technology for power systems
  - Seawater scrubbing of SO₂
  - PFA landfill modelling
  - Electric vehicles
  - Effect of electromagnetic fields on humans
  - Revegetation of pulverised fly-ash lagoons

- **Infrastructure**
  - Building systems
  - Geotechnical engineering
  - Bridge engineering
  - Coastal engineering
  - Transportation systems
  - Airports and harbours

- **Other research areas**
  - Software engineering
  - Manufacturing
  - Textiles
  - Plastics
  - Herbal medicines
  - Science Park development
  - Finance
  - Geographical information
  - Shock and vibration

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**Office of Contract and Grant Administration**

This Office helps University faculty and staff in the development and operation of research and development contracts and grants sponsored by industrial, governmental, business and philanthropic organisations. Information about potential sources of funding is distributed and assistance provided in the preparation of proposals that meet established criteria for review and evaluation. When sponsored funds are obtained, budgets are established and assistance supplied to assure that contract and grant requirements are satisfied. Complex issues of intellectual property development, proprietary rights, contractual restrictions, and operational coordination are administered to support faculty, staff, and students in achieving maximum scholarly benefit from available funds.

**Technology Transfer Centre**

The Technology Transfer Centre is dedicated to bringing new and better technology to accelerate the social and economic development of Hong Kong. The involvement of University faculty and facilities to evaluate, develop, commercialise, produce and market new products and processes is the goal. The creation and licensing of patents, software and copyrights are part of the process. The expansion of existing industries and the incubation and support of new industries to produce and market new products are still other parts of the process. The economic utilisation of technical achievements of the University for the benefit of Hong Kong is the organisational goal of the Technology Transfer Centre.

**Biotechnology Research Institute**

The mission of the Biotechnology Research Institute (BRI) is to assist Hong Kong in its economic development, and in so doing contribute to the economic well-being of the Asia-Pacific region, through the research, development and training of specialists in biotechnology.
The biotechnological industry worldwide is entering into a period of unprecedented growth opportunities. Besides the rapid scientific advances that are bringing a constant stream of new processes and products, the business environment of the industry is also undergoing dramatic changes in the form of increasing globalisation, as new entrants, both national governments and corporations, seek participation. The founding of BRI could not have come at a more opportune time, to help Hong Kong strive to become one of the important centres of biotechnology in the world.

Biotechnology covers a wide range of fast-growing areas of economic importance. The four research areas that have been targeted for development by BRI are:

1. Biomedical instrumentation and diagnostics
2. Drug delivery and development
3. Agricultural and environmental bioengineering
4. Genetic engineering

The activities of BRI include the recruitment of biotechnology related faculty, the purchase of equipment, the planning and construction of facilities, and the launching of research projects in the targeted areas.

**Hong Kong Telecom Institute of Information Technology**

This Institute has been founded with a grant of $100 million from Hong Kong Telecommunication Limited. The concept of the Institute is based on the recognition that in the future there will be no economic development, no industry or commerce, no service or manufacturing capability of any significance without the full utilisation of telecommunication and information technology. All Schools at the University are expected to be involved in the research activity of this Institute.

Undergraduate scholarships and postgraduate research assistantships are offered through the Institute, and certain members of the academic faculty are designated as Fellows.

Research in the University's Schools and Departments receive support in fields such as optical devices and materials, high-frequency electronics and optoelectronics, video signal processing, and information processing.

**Materials Characterisation and Preparation Centre**

The Materials Characterisation and Preparation Centre is a central facility for the synthesis, study and testing of new materials and materials needed for in-house or collaborative research projects. The Centre constitutes an important resource which provides state-of-the-art instrumentation, organises workshops and training, and is a focal point for interdisciplinary research. The facility serves academics in all the Science and Engineering Departments and is also available to external clients from other tertiary institutions, government bodies, and private industry. During 1993 the Centre will move to larger premises in the Phase II building, thus enabling the scope of facilities to be expanded to meet more fully the needs of the growing research community of staff and graduate students.

**Microelectronics Fabrication Centre**

The mission of the MFC is to provide capabilities for the fabrication of microelectronic devices and integrated circuits in support of undergraduate and postgraduate teaching...
and research. Particular objectives for technology development include novel semiconductor devices, higher speed transistors and ICs, innovative microsensors and microactuators, and application specific integrated circuits (ASICs).

To achieve the objectives, half of the phase I 495-square metre-Centre is devoted to Class 1,000 clean rooms (containing less than 1,000 particles larger than a half micrometre per cubic foot of air) where state-of-the-art microelectronic processing equipment is located. The Centre’s clean rooms are divided into four basic fabrication modules, namely, photolithography, thermal diffusion/thin-film deposition, dry/wet etching and metallisation.

While the Centre is closely associated with electronics engineering, researchers in other disciplines have also found microfabrication techniques highly valuable for various applications. Research projects from physics, chemistry, biology, biochemistry, mechanical engineering and other engineering fields will be encouraged.
VII. CENTRALISED AND ACADEMIC SUPPORT SERVICES

University Library

The University Library occupies a central location close to the University's entrance Piazza, covering five floors and commanding a spectacular sea view.

As an integral component of the academic programme, the Library supports the University's teaching and research in science, engineering, business and management, the humanities and the social sciences. There are seminar rooms for meetings and instruction, areas for group discussion, and ample study carrels for individual use. Audio-visual materials, both educational and recreational, are available for use in specially equipped facilities. The Library is much more than a repository for the accumulated knowledge of civilisation; it serves as the heart of our intellectual enterprise.

The rapid development of the University requires a correspondingly rapid rate of growth in its library collection. The Library opened in 1991 with a collection of approximately 120,000 books, bound periodicals as well as non-print materials. During the 1991-94 triennium, and thereafter, the Library plans to add about 60,000 items per year to provide support for the University's programme development. Reaching beyond local holdings, the Library has made extensive provisions for automation. The Library Online System forms a part of the campus-wide network, and is therefore accessible from every part of the campus. Through the Online System users are able to consult a variety of bibliographic and full-text information as well as search CD-ROM databases. The University Library is linked via telecommunications to libraries and databases in institutions locally and overseas.
In 1992, the Library occupied four levels with over 8,000 square metres of floor space and 800 seats. A fifth floor will open in the fall of 1993 with another 2,000 square metres of floor space and 160 seats. Phase III construction of the University campus would see the Library expand horizontally at the second and third levels to a total space of 13,000 square metres with a capacity for 1.2 million volumes.

An experienced staff assists patrons in a variety of ways, from the selection, acquisition, and cataloguing of materials to using the collection, online searches, and interlibrary loans. There is also a fully equipped training centre for group instruction. The University Library has a strong service orientation in order to most effectively meet the information needs of its academic community.

Centre of Computing Services and Telecommunications

The Computing Services and Telecommunications Centre supports undergraduate teaching, advanced instruction, and research applications in science, engineering, business and management, and humanities and social science; it also serves the University's administrative needs. A most modern and effective approach to information systems is being put in place. A multi-lingual system will also be established.

The computing environment is highly distributed, consisting of a network of microcomputers and scientific workstations which connect all campus buildings. Several powerful server computers will supply central resources and network services. A very high speed "backbone" network will be employed, with distributed wiring junctions from which various local area networks will emanate. The "backbone" network is the Fibre Distributed Data Interface (FDDI), one of the world's most advanced systems, which operates at 100 million bits/second.

At the Hong Kong University of Science and Technology, the computer provides access to a vast array of information resources, such as the University Library, various databases for the different scientific and business disciplines, other Hong Kong institutions, and through the Internet and BITNET connections, educational and research institutions worldwide.

In addition to the Computer Centre's central facilities, the academic buildings are provided with "computer barns" in every wing to facilitate undergraduate student use, and each Department has, or shares, a computer terminal room for use by postgraduate students and academic staff.

Apart from the computing services, the Centre also supports a campus-wide PABX system which provides a telecommunication network for the entire university, including staff quarters and student halls.

Language Centre

The Language Centre has a pan-University role in the provision of language courses, both as academic disciplines and as a support service. English is the medium of instruction in the University, and a priority of the Language Centre is to assist students in all Schools to acquire the necessary language skills for them to gain the maximum benefit from their subject courses.

The Language Centre has two 24-booth audio-visual language laboratories (for oral/aural work), and one 24-booth computerised language laboratory (for oral/aural work as well as text processing and editing), for use both by class groups and by individuals. The laboratories are open on weekdays for staff and students to make use of the growing collection of self-access materials in English and other languages.
Educational Technology Centre

The University is committed to high standards and up-to-date methods in postgraduate teaching and in the communication of research results. To this end, the Educational Technology Centre sustains a comprehensive service for all academic teaching and research staff. It provides and maintains a wide range of instructional media resources for academic purposes. It assists academic staff in producing teaching and learning materials, including those generated with computer graphics technology, as well as slide presentations, overhead transparencies, video tapes and print materials. In addition, the Centre provides high-speed, high-volume reprographic services.

To underpin these production and technical services, the Educational Technology Centre organises faculty development workshops and seminars for faculty, teaching assistants, and tutors on educational issues and instructional practices in higher education, including selection and use of mediated instructional materials, production of teaching and learning packages and methods for student feedback of teaching effectiveness. The Centre also serves as a resource for information on teaching methods, instructional formats and materials related to research on teaching.
VIII. STUDENT SERVICES

Through the Student Affairs Office, the University offers a range of services to students for the purpose of promoting the quality of campus life and assisting students in solving problems affecting their studies. Extra-curricular educational activities are also organised with the aim of broadening students' cultural and intellectual outlook as well as enhancing their social and interpersonal skills.

Counselling Service

Staff of the Student Affairs Office offer assistance in many areas of student concern, such as adjustment to a new environment, financial hardship, personal problems and study-related problems.

Physical Education and Sports

Developing physical health and fitness is as important as broadening the mental capacity and horizons of students. To this end, the University expects all students to participate in at least one organised sport or physical education activity during their years at the University. Professional coaches are available to organise and provide instructions in these activities. A large multi-purpose sports hall with 1,600 square metres of floor space is available for such sports as badminton, volleyball, basketball, tennis, indoor soccer, and table tennis, with other areas set aside for fencing, martial arts, aerobics, and other exercises. By the end of 1992, outdoor facilities will be completed. These include a 50-metre swimming pool, an all-weather pitch, a 400-metre athletics track as well as basketball and tennis courts. Expansion of the indoor sports hall is also being planned to include a number of squash courts and other exercise facilities.

Health Service

The Student Health Service provides out-patient health care for students. Health education workshops and seminars are organised and presented for the benefit of students and staff alike.
Residential Accommodation

There are two on-campus postgraduate Residential Halls, providing accommodation for 356 postgraduate students. Allocation of student housing is organised by the Student Affairs Office.

Residents are housed in furnished single rooms. There are no facilities for married students with or without children. Neither are there be cooking facilities. Meals are to be taken at the central dining facilities on campus.

Please consult the section on 'Fees, Other Expenses, and Financial Assistance' for details of Residential Hall charges.

The Student Affairs Office operates an accommodation service on a limited scale to assist students who wish to seek off-campus accommodation near the University.

Student Amenities

Amenities for organised and personal student activities are provided in a central location. These include facilities for the pursuit of hobbies such as photographic dark rooms, music rooms and studios; for the organisation of activities such as meeting rooms, workshops, office space and exhibition areas; and for leisure activities for individual students and interaction among students, such as common rooms, TV rooms and reading rooms.

Student food service on campus comprises a canteen serving economical Chinese and Western meals, snacks and sandwiches. Plans are underway for additional food services to open in the autumn of 1993.

Commercial facilities include a bookshop, two banks, and a convenience store.

The campus itself, on a site of great beauty enhanced by landscaping, terraces, and pavilions, has been designed with great emphasis on the quality of life for both resident and non-resident students.

Student Activities

Since the first intake of students in 1991-92, students have been active by organising groups, including a Students' Union and societies associated with academic disciplines, residential halls, sports, arts and other social interests. The Student Affairs Office of the University also organises extra-curricular activities and programmes such as formal dinners, competitive sports, talks and seminars.

Careers Education and Placement Service

The Service helps students clarify their career plans and options. To assist students in their career decisions, this service collects career information for consultation by students and links students with potential employers.
IX. ADDITIONAL INFORMATION

Academic Year 1993-94

The academic year of the University will run from 1 July 1993 to 30 June 1994 and will include two 15-week semesters and a winter session of five weeks.

Term dates for the year 1993-94 will be:

- **Fall Semester**: 6 September 1993 to 18 December 1993
- **Winter Session**: 3 January 1994 to 4 February 1994
- **Spring Semester**: 14 February 1994 to 3 June 1994

The dates of the Spring Semester include a mid-semester break from 30 March to 4 April 1994.

The Winter Session will be held between the two semesters for enrichment, study skills, language improvement, research, conferences, and other activities. For most students participation in such activities will be optional.

University Calendar for 1993-94

Detailed information about the University will be contained in the University Calendar for 1993-94 which will be published in summer of 1993. Students accepted for admission to the University in September 1993 will be able to purchase a copy of the Calendar from the University at that time.

General Enquiries

Students requiring advice or assistance on application procedures, entrance requirements, or other related matters are welcome to visit, telephone, or write to the Admissions, Registration and Records Office which is open Mondays to Fridays during the following hours:

- 9 a.m. - 12:30 p.m.
- 2 p.m. - 5 p.m.

and on Saturdays during the following hours:

- 9 a.m. - 12 noon

All enquiries should be addressed to:

The Director of Admissions, Registration & Records
The Hong Kong University of Science and Technology
Clear Water Bay
Kowloon
Hong Kong

Telephone No. : (852) 358-6622
Facsimile No. : (852) 358-0769
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