The Chancellor
The Chairman of the Council
The Vice-Chairman of the Council
The Treasurer of the Council
The Vice-Chancellor and President
The Pro-Vice-Chancellor for Academic Affairs
The Pro-Vice-Chancellor for Administration and Business
The Pro-Vice-Chancellor for Research and Development

Principal Officers of the University

His Excellency the Right Honourable Christopher PATTEN
Sir Sze-yuen CHUNG, GBE, JP
Mr. CHENG Hon-kwan, OBE, JP
The Honourable LAU Wah-sum, OBE, JP
Professor Chia-Wei WOO, BS, MA, PhD
Professor Shain-Dow KUNG, BS, MS PhD
Mr. Ian F.C. MACPHERSON, CBE, MA
Professor Thomas E. STELSON, BS, MS, DSc

Prospectus for entry in September 1994

This Prospectus is published for the guidance of students who wish to enter the University in September 1994. 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 Prospectus and a University regulation or programme, or where an interpretation of the Prospectus is required, the decision of the University Authority shall be final. The Prospectus does not form any part of a contract between any person and the University.

An Undergraduate Prospectus in Chinese will be produced at a later date and will be available on request.

All enquiries should be addressed to:

The Director
Admissions, Registration and Records Office
The Hong Kong University of Science and Technology
Clear Water Bay
Kowloon
Hong Kong
Telephone: 358 6622
Facsimile: 358 0769

July 1993
Dear Applicants,

On 8 November 1989, the Prince of Wales came out to Clear Water Bay Peninsula to lay the foundation stone for the Hong Kong University of Science and Technology. More than 500 young students, representatives from secondary schools throughout the Territory, took part in this memorable event. A new university was to be built, dedicated to the education of Hong Kong's future leaders, and to the economic development of the Territory.

Why did we invite these young guests to participate in the ceremony? Our sole aim was to inform you, the young people of Hong Kong, that this University was built for you.

As we approach the day when our fourth class of students will apply to join us on our magnificent campus, we have more to say to our young friends.

The purpose of this Prospectus, then, is to inform you and your parents about the programmes offered by our different Schools and Departments, what kinds of students we are looking for, how our courses will be taught, and the campus activities in which you may wish to participate.

If you are curious about a wide range of topics, capable of hard work, compassionate, and enthusiastic about life in general, you will find the challenges you are looking for at HKUST.

Students entering in the initial years will blaze an exciting new trail for others to follow. As HKUST graduates, you will become cultured individuals endowed with specific knowledge relevant to the Territory's economic and social well-being. With your hands on the present and your eyes on the future, you will build a better tomorrow for yourselves and for all of us—the people of Hong Kong.

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 University Ordinance
The Campus

HKUST is a gift from the people of Hong Kong to themselves and, surely some day, to the people of the world.

-Vice-Chancellor Chia-Wei Woo

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, was completed in January 1993. Construction costs were $3.598 billion, of which the Royal Hong Kong Jockey Club generously donated a total of $1.926 billion, and was also responsible for managing the overall construction project. The remaining cost was provided by the Government of Hong Kong. With the completion of Phase III (contingent upon Government’s approval of construction funds), the University will be able to accommodate a student body of 10,000 FTE students and will have about 9.3 million square feet of indoor academic space.

Academic Faculty

The University recruits worldwide for faculty who have achieved excellence in their respective fields and are highly respected as both teachers and researchers. They include both established academics 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.

Students

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 are in senior positions. By the end of 1994, about 350 academics will have been appointed. Presently at a lower level, the steady-state student-faculty ratio will be 11:1.

Projected Student Numbers

According to current projections, the University will admit 1,900 undergraduate and approximately 450 postgraduate students in 1994. A total of 5,000 full-time equivalent students will be registered in 1994. When fully established it is projected that the University will admit approximately 2,750 undergraduate and 700 postgraduate students annually to the four Schools.
THE UNIVERSITY

Undergraduate Programmes

The undergraduate programmes offered by the University involve students attending full time for three academic years. The University curriculum is founded on a credit-based system, and all undergraduate programmes lead to honours degrees. HKUST believes in total education and the credit-based structure of undergraduate academic programmes strikes a compromise between the sharp focus prevalent in traditional Chinese and British universities and the broad approach characteristic of American universities. To ensure breadth of education, undergraduates take just over one-third of their credits outside their major department with at least 12 credits in the School of Humanities and Social Science and the remaining credits spread over subjects offered by other departments. For graduation purposes students will need to accumulate a total of 100-105 course credits.

As the University is being constructed in phases, the Schools are introducing degree programmes in their respective Departments over a period of three years. The School of Humanities and Social Science offers general education for all undergraduates in the other three Schools and accepts no first-degree students of its own.

Based on current planning, by 1994 all of the following first-degree programmes will be offered:

School of Science

Bachelor of Science (BSc) (3 years)
- Biochemistry
- Biology
- Chemistry
- Mathematics
- Physics
- Applied Physics

School of Engineering

Bachelor of Engineering (BEng) (3 years)
- Chemical Engineering
- Civil and Structural Engineering
- Computer Science
- Electrical and Electronic Engineering
- Industrial Engineering
- Mechanical Engineering
* Computer Engineering

School of Business and Management

Bachelor of Business Administration (BBA) (3 years)
- Accounting
- Business Information Systems
- Economics
- Finance
- Management
- Marketing

Bachelor of Science (BSc)
- Economics

* Joint degree offered by Department of Computer Science and Department of Electrical and Electronic Engineering

Postgraduate Programmes

The University offers postgraduate studies leading to master's and doctoral degrees in all four Schools. Please refer to the Postgraduate Handbook and individual departmental brochures for further details.

There will be more joint degrees offered by agreements between Departments and Schools. For details regarding the various Departments, please refer to appropriate sections of this Prospectus.

The quality of work completed is recognised by the assignment of grades where:

Grade A is given for excellent performance,
Grade B is given for good performance,
Grade C is given for satisfactory performance, and
Grade D is given for a marginal pass.

Students are expected to attend classes regularly and to complete assigned work.
II. UNIVERSITY ENTRANCE REQUIREMENTS

General Undergraduate Entrance Requirements

To qualify for admission to the University, applicants must:

(a) normally be at least 17 years of age by the first day of the academic year to which they are seeking admission;

(b) meet the general entrance requirements of the University and the requirements of the particular programme or programmes for which they are applying; and

(c) apply on the prescribed form before the application deadline.

Entry to an undergraduate programme of study at the Hong Kong University of Science and Technology requires prospective students to satisfy both general University and specific departmental entrance requirements.

Knowing ignorance is strength. Ignoring knowledge is sickness.
—Lao Tzu
or (2) AL Chinese Literature and 3 AS subjects.

For applicants who are using an alternative language, rather than Chinese, to satisfy the language requirements in the HKCEE, AS Liberal Studies or another AS subject may be used as a substitute for the Chinese Language and Culture requirement.

For applicants with HKALE qualifications obtained prior to 1994, passes in at least three AL subjects and a pass at grade D or above in the Use of English Examination are required.

Entrance Requirement Equivalents

Alternatively the general entrance requirements may be satisfied by obtaining one of the following qualifications:

(a) the General Certificate of Secondary Education, or the General Certificate of Education, with passes in at least seven subjects at the Ordinary Level including Mathematics, English Language, and a language other than English and passes in 1 AL subject + 3 AS subjects or 2 AL subjects + 1 AS subject or, for candidates without AS subjects, passes in at least 3 AL subjects;

(b) at least one year’s successful full-time study or equivalent in a bachelor’s degree programme at a university or other institution recognised by this University;

(c) a professional diploma, higher diploma or higher certificate from a polytechnic or recognised tertiary college in Hong Kong;

(d) an International Baccalaureate.

Notwithstanding the above, the University may recognise other qualifications from, or successful study at, an overseas institution for the purpose of satisfying the general entrance requirements. In assessing such qualifications, the University wishes to ensure that overseas applicants have an educational background which is equivalent to that required of local candidates. Proficiency in English will also be a consideration.

English Language Requirement Equivalents

As an alternative to the English Language (Syllabus B) of the Hong Kong Certificate of Education Examination required at Grade D or above, one of the following examinations will be acceptable:

a) English Language (Syllabus A) of the Hong Kong Certificate of Education Examination - Grade B or above;

b) English Language of the Hong Kong Higher Level Examination - Grade D or above;

c) English Language of the General Certificate of Education Examination (Ordinary Level) - Grade C or above; and

d) English Language of the General Certificate of Secondary Education - Grade C or above.

Mature Applicants

Applicants who do not satisfy the general entrance requirements or the programme requirements of the University but are aged 25 or over by the first day of the academic year in which admission is sought may be granted exemption from the University Entrance Requirements provided they can demonstrate aptitude and suitability for admission to a particular programme of study.

Departmental Entrance Requirements

In addition to the general requirements, applicants must also satisfy entrance requirements for their desired programmes of study. These are specified in the relevant departmental sections of this Prospectus.
III. APPLICATION AND SELECTION PROCEDURES

Students may enter the University through two routes. Applicants who are seeking admission on the strength of their Hong Kong Advanced Level Examination results should apply via JUPAS, as described below. All others including applicants currently reading full-time and sandwich degree programmes in one of the UPGC-funded institutions enter by direct admission.

In the September of 1994 the University will admit students to the following undergraduate programmes:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Title of Course</th>
<th>Abbreviated Title</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Science BSc</td>
<td>Biochemistry</td>
<td>BICH</td>
<td>E420</td>
</tr>
<tr>
<td>BSc</td>
<td>Biology</td>
<td>BIOL</td>
<td>E430</td>
</tr>
<tr>
<td>BSc</td>
<td>Chemistry</td>
<td>CHEM</td>
<td>E440</td>
</tr>
<tr>
<td>BSc</td>
<td>Mathematics</td>
<td>MATH</td>
<td>E460</td>
</tr>
<tr>
<td>BSc</td>
<td>Physics</td>
<td>PHYS</td>
<td>E480</td>
</tr>
<tr>
<td>BSc</td>
<td>Applied Physics</td>
<td>APHY</td>
<td>E481</td>
</tr>
<tr>
<td>School of Engineering BEng</td>
<td>Chemical Engineering</td>
<td>CENG</td>
<td>E320</td>
</tr>
<tr>
<td>BEng</td>
<td>Civil and Structural Engineering</td>
<td>CIVL</td>
<td>E330</td>
</tr>
<tr>
<td>BEng</td>
<td>Computer Science</td>
<td>COMP</td>
<td>E340</td>
</tr>
<tr>
<td>BEng</td>
<td>Electrical &amp; Electronic Engineering</td>
<td>ELEC</td>
<td>E350</td>
</tr>
<tr>
<td>BEng</td>
<td>Industrial Engineering</td>
<td>INDE</td>
<td>E360</td>
</tr>
<tr>
<td>BEng</td>
<td>Mechanical Engineering</td>
<td>MECH</td>
<td>E370</td>
</tr>
<tr>
<td>BEng</td>
<td>* Computer Engineering</td>
<td>CPEG</td>
<td>E380</td>
</tr>
<tr>
<td>School of Business and Management BBA</td>
<td>Accounting</td>
<td>ACCT</td>
<td>E220</td>
</tr>
<tr>
<td>BBA</td>
<td>Business Information Systems</td>
<td>BINF</td>
<td>E230</td>
</tr>
<tr>
<td>BBA or BSc</td>
<td>Economics</td>
<td>ECON</td>
<td>E240</td>
</tr>
<tr>
<td>BBA</td>
<td>Finance</td>
<td>FINA</td>
<td>E250</td>
</tr>
<tr>
<td>BBA</td>
<td>Management</td>
<td>MGMT</td>
<td>E260</td>
</tr>
<tr>
<td>BBA</td>
<td>Marketing</td>
<td>MARK</td>
<td>E270</td>
</tr>
</tbody>
</table>

*Joint degree offered by the Department of Computer Science and the Department of Electrical and Electronic Engineering

All programmes are of three years' duration and involve full-time study at the University.

Degree Titles

Undergraduate programmes in the School of Science lead to the degree of Bachelor of Science (BSc).

Undergraduate programmes in the School of Engineering lead to the degree of Bachelor of Engineering (BEng).

Undergraduate programmes in the School of Business and Management lead to the degree of Bachelor of Business Administration - (BBA), or Bachelor of Science (BSc).

Application for Admission in 1994 Through JUPAS

In the Autumn of 1990 the "Joint University and Polytechnic Admissions System" (JUPAS) was introduced. This system enables applicants to employ on the strength of their HKALE results to the undergraduate programmes of the following seven member institutions of JUPAS:

- City Polytechnic of Hong Kong
- Hong Kong Baptist College
- Hong Kong Polytechnic
- Lingnan College
- The Chinese University of Hong Kong
- The Hong Kong University of Science and Technology
- The University of Hong Kong

For 1994 admission through JUPAS, the JUPAS Office will, in September 1993, provide the secondary schools of Hong Kong with the appropriate application forms, copies of the JUPAS Guide and the prospectuses of the seven participating institutions. The JUPAS Guide contains detailed information on application and selection procedures and a list of programmes offered by individual institutions. It is essential that applicants study the JUPAS Guide and the prospectuses of the various institutions carefully before completing the application form. An application fee of HK$320 will be payable to the JUPAS Office by all applicants.
Timetable of the JUPAS 1994 Exercise

The following are important dates for the process of 1994 admission. It is included here to illustrate the admission process. JUPAS may make adjustments to the timetable.

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 November 1993</td>
<td>Closing date for applications for admission</td>
</tr>
<tr>
<td>26 November 1993</td>
<td>School applicants and non-school applicants receive application checklists of their personal data and choice of study programmes</td>
</tr>
<tr>
<td>15 December 1993</td>
<td>Final date for applicants to report errors, if any, in applicants' checklists to JUPAS Office</td>
</tr>
<tr>
<td>January to mid-June 1994</td>
<td>Interview and tests, where appropriate</td>
</tr>
<tr>
<td>Late May 1994</td>
<td>Announcement of HKAL U.E. examination results</td>
</tr>
<tr>
<td>15 June 1994</td>
<td>Final date for applicants to request IN PERSON for changes of their choice of study programmes to the JUPAS Office</td>
</tr>
<tr>
<td>Early July 1994</td>
<td>Announcement of HKALE results</td>
</tr>
<tr>
<td>1 August 1994</td>
<td>Publication of results of the main round offer in newspapers</td>
</tr>
<tr>
<td>1 - 3 August 1994</td>
<td>Applicants to reply IN PERSON to offers in the main round to the JUPAS Office</td>
</tr>
<tr>
<td>Mid August - September 1994</td>
<td>Subsequent rounds of selection by individual institutions, if vacancies are still available. Applicants, if selected, receive letters direct from the institutions concerned.</td>
</tr>
</tbody>
</table>

Application for Direct Admission in 1994

Applicants who are not eligible to apply for admission through the “Joint University and Polytechnic Admissions System” (JUPAS) including those currently enrolled in full-time and sandwich degree programmes of one of the University and Polytechnic Grants Committee (UPGC) - funded institutions should apply direct to the University. However, in accordance with UPGC’s guidelines on the inter-institutional transfer of students, applicants wishing to transfer from the first year of a full-time degree programme to the first year of the same or similar discipline/study area in our University will only be considered in very exceptional cases.

Copies of the Undergraduate Prospectus and application forms will be available from 2 October 1993 for entry in September 1994 at:

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

The completed application form should be returned to the University at the above address by 31 December 1993 together with 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:

If one learns from others but does not think, one will be bewildered.
If, on the other hand, one thinks but does not learn from others, one will be in peril.

~ Confucius
Bank of China or Hang Seng Bank Ltd., using the pay-in slips provided by the University.

The application form allows the applicant to select up to three degree programmes of study at the University. The selected programmes should be listed in order of preference on the application form. Subsequent changes are not normally permitted. Requests for change can only be made by writing to Admissions, Registration and Records Office.

**Advanced Standing**

Applicants from Universities, Polytechnics or other post-secondary institutions who have completed/are studying curriculum relevant to the programme(s) for which they are going to apply may choose to be admitted to the programme(s) with advanced standing. However, application for direct entry to year 2 or a later stage of the study programmes, will be assessed on a case-by-case basis.

Departments may grant advanced standing to students for successful study completed elsewhere within the guidelines:

(a) for programmes normally requiring three years of full-time study, a minimum of one year's full-time study at HKUST is required before a student is considered for award of the degree; and
(b) a minimum of 35 HKUST credits are required for graduation.

**Selection Procedures**

As stated earlier in this Prospectus, and it is worth repeating, the University seeks highly qualified and motivated young men and women who have wide interests and have received a well-rounded, broad-based secondary education; they should be active participants rather than spectators in diverse activities. They should possess great potential in addition to having achieved good grades.

To meet these aims the University will rely heavily on the information contained in the school principal's or academic referee's report and on the information provided by the applicant in the application form.

The JUPAS procedure is described in a previous section (page 17). For direct applications to the University, after a careful scrutiny of the application forms and reports, arrangements will be made for selected applicants to be interviewed between 1 January 1994 and 31 March 1994. Firm offers and some conditional offers will be made to successful applicants after the interview. The conditional offers will specify the requirements that will need to be met to gain admission to the chosen programmes of study. Other selected applicants will be placed on a reserve list and will be reconsidered when the HKALE or other examination results are published.

**Successful Applicants**

Successful applicants are likely to be those who have strong support from their school principals or academic referees, have gained high examination marks over a number of years and over a wide range of subjects, and have been actively involved in extra-curricular activities.

**Students from Overseas**

The University welcomes applications from overseas students who are seeking admission to full-time studies at the undergraduate or postgraduate level.

Applicants should be aware, however, that competition for admission is such that only well-qualified candidates will gain admission.

Details of the application and selection procedures have been given previously. However, because of differences between the educational system in Hong Kong and those in other countries, students eligible to enter undergraduate programmes in their own countries may find that their qualifica-
tions are not necessarily recognised for entry to the first year at HKUST. Prospective overseas undergraduate students should first write to the Director of Admissions, Registration and Records Office, providing full details of their educational qualifications so that an initial assessment may be made as to their entry qualifications.

If that assessment indicates that the requirements may be met, the appropriate forms will be sent to the prospective student. These should be returned to the Director of Admissions, Registration and Records Office together with a bank draft to cover the application fee of HK$120. At that point the formal selection process will begin.

Certified true copies of all degrees, diplomas, certificates and other qualifications held should be submitted with the application form. Applicants accepted for admission will be required to produce the original documents on arrival at the University.

Overseas students should carefully consider the financial aspects of their studies in Hong Kong before applying for admission. In 1994-95 fees for local students will amount to HK$24,000. In addition monies will be needed for subsistence, text-books, local travel, sports equipment, clothing, and other personal needs. A total of at least HK$53,000 per academic year is likely to be required for undergraduate study.

The University is unable to act as a guarantor or otherwise to assist students in making arrangements for entry to Hong Kong. Overseas applicants should make their own arrangements to obtain a student visa by contacting the nearest British Consulate, High Commission or Visa Office in their own country.

Alternatively, prospective overseas applicants may write to the Hong Kong Immigration Department, 7 Gloucester Road, Wanchai, Hong Kong for advice.

Double Registration

Students admitted to a full-time programme of study at this University will be expected to study full-time for their degrees. They will not be permitted to register for another qualification at this University or at another post-secondary institution unless they have obtained approval, in writing, from the Director of Admissions, Registration and Records Office. 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 on a programme for another qualification they may be required to discontinue their studies at this University.

Admission Enquiries

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

9am - 12:30pm
2pm - 5pm

and on Saturdays during the following hours:

9am - 12 noon

All enquiries should be addressed to:

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

Telephone: 358 6622
Facsimile: 358 0769
IV. THE SCHOOL OF SCIENCE

Degree offered: Bachelor of Science (BSc) with Honours

The School of Science which comprises five Departments; namely, Biochemistry, Biology, Chemistry, Mathematics, and Physics, enrols about 25% of the University’s undergraduates and 23% of the postgraduates.

All five Departments were inaugurated in the fall of 1991 with simultaneous intake of undergraduate and postgraduate students. All Departments in the School offer first-degree programmes leading to the BSc degree, and postgraduate programmes leading to the master’s and doctoral degrees.

In keeping with the University’s philosophy of providing specialised training with a generalist outlook, undergraduates are required to take, in addition to the credits in their major Department, just over one-third of their credits in Departments belonging to other Schools with a minimum of 12 credits in the School of Humanities and Social Science.

Selection Criteria

Selection for admission to the University and the School is not based solely on the results of a single examination. Results of the HKALE and HKCEE are assessed together with other criteria such as progress and breadth of subjects taken throughout secondary school and participation in extra-curricular activities. Reports and recommendations from school principals and teachers are critically evaluated.

Science has, as its whole purpose, the rendering of the physical world understandable and beautiful.

– J.R. Oppenheimer

For overseas and other applicants who have not participated in Hong Kong public examinations, other equivalent examinations and/or academic qualifications are considered.

Interviews and Tests

Applicants may be requested to attend personal interviews and/or take additional tests to be administered by the University. Interviews are designed to provide further assessment information on the applicant’s motivation, aptitude and overall suitability for the chosen field of study.
The Department of Biochemistry

Degree offered: BSc in Biochemistry

Biochemistry is the study of biological molecules such as proteins, nucleic acids, lipids etc. which form the morphological structures represented by the cell and cellular organelles, provide machinery for the inheritance and expression of genetic information, and energise catalytic transformations essential to cellular growth and reproduction. The study of the nature of these molecules and their reactions has brought about rapid advances in the biological and medical sciences, and has furthermore enabled the development of biotechnological industries that are playing an increasingly important role in the global economy.

I hope mankind will be able to end the dangers threatening us and to progress while preserving all that makes us human.

- Andrei Sakharov

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects plus one AL/AS subject. One of the AL subjects must be Chemistry, and one of the remaining AL/AS subjects must be Biology. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in at least three of the four subjects: Biology, Chemistry, Physics, and Pure Mathematics. Students deficient in one of these subjects may be required to take remedial work in the first year of the degree programme.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Degree Structure

The objectives of the Bachelor of Science programme are to introduce students to the basic concepts of biochemical molecules and processes, and to provide training in the methodologies used in laboratory investigations. Accordingly, the programme will emphasise both theory and experimentation.

In addition to basic chemistry and biology classes, first-year students will be introduced to the concepts of molecular biology; molecular structure and metabolism in topics such as nucleic acid structure and enzymology; DNA replication and transcription; protein structure; enzyme kinetics; and the chemistry and metabolism of carbohydrates, lipids and amino acids.

Second-year courses will include genetic engineering, protein chemistry, and membrane and cellular metabolism. In the final year, in addition to lecture courses, students may choose to conduct specialised research in a major area under the supervision of academic advisers or to participate in a seminar programme examining the current status of various areas of biotechnological development.

Practical laboratory classes corresponding to the lecture sessions will be required in the first two years.

A fact, in science, is not a mere fact, but an instance.

- Bertrand Russell

The most incomprehensible thing about the world is that it is comprehensible.

- Albert Einstein
The Department of Biology

Degree offered: BSc in Biology

The study of biology covers a wide range of systems at all levels of organisation, ranging from molecules and cells to organisms and populations in both plants and animals. At HKUST, the biological research and teaching programmes reflect all levels, with emphasis on the molecular and cellular levels. Research areas within the Department include molecular biology and genetics, cell and developmental biology, plant and animal physiology, neurobiology, marine biology and environmental biology. The Department also contributes to the research and development programmes of the Biotechnology Research Institute and the Institute for Environmental Studies.

The Department of Biology is equipped with modern teaching facilities and state-of-the-art research instruments, including facilities for cell culture and hybridoma, molecular and cell biology, and modern microscopy as well as animal care facilities and a greenhouse for plant studies. Also, faculty and students may utilise the extensive central facilities and computer network of the University.

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects plus one AL/AS subject. One of the AL subjects must be Biology, and one of the remaining AL/AS subjects must be Chemistry. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in at least three of the four subjects: Biology, Chemistry, Physics, and Pure Mathematics.

Degree Structure

The three-year undergraduate programme leading to the Bachelor of Science degree provides basic training in the biological sciences through course work and laboratory studies. During the first two years of study, students take a set of core subjects in biology and biochemistry. Laboratory work associated with the core and some of the elective subjects are also required. In their second and third years of study, students are required to take a series of electives so that they can specialise in one of the four areas, namely (1) Cell and Molecular Biology, (2) Organismal Biology (3) Marine Biology and (4) Environmental Biology. These specialties reflect the current and future needs of Hong Kong and its neighbouring territories. Options for seminar courses that are designed to enhance the students' communication skills and research projects to train the student in laboratory research are also provided.

Admission Requirements

Other candidates with equivalent qualifications may also apply.
The Department of Chemistry

Degree offered: BSc in Chemistry

Chemistry is the science which deals with the composition and properties of substances, and with the reactions by which substances are produced or converted into other substances. It is traditionally divided into four mainstream areas: analytical chemistry, organic chemistry, inorganic chemistry, and physical chemistry. Just as in many other fields of study, the thrusts of advances in chemistry are gradually shifting to interdisciplinary areas, thus creating new opportunities for research and study.

First there must be a true man; then there can be true knowledge

- Chuang Tzu

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Chemistry, and one of Biology, Physics, Pure Mathematics, or Applied Mathematics) plus one AL/AS subject (Biology, Physics, Pure Mathematics, Applied Mathematics, or Mathematics and Statistics). Candidates are discouraged from using two Mathematics subjects to satisfy the requirements. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in at least three of the four subjects: Biology, Chemistry, Physics, and Pure Mathematics. Students deficient in one of these subjects may be required to take remedial work in the first year of the degree programme.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Degree Structure

The three-year programme leading to the Bachelor of Science degree is designed to provide students with a strong theoretical and practical foundation in the four mainstream areas of chemistry: analytical, organic, inorganic, and physical. Introductory courses in these areas are required of all first-degree students throughout the three years.

Students may choose a general programme tailored to their individual interests, or may specialise in one area by taking additional advanced course work and participating in approved research projects. Though this is not required for graduation, students with good records are encouraged to complete a research project under the supervision of individual academic advisers.
The Department of Mathematics

Degree offered: BSc in Mathematics

There are three categories of first-degree programmes in the Department of Mathematics: the programme in Pure Mathematics, the programme in Mathematical Sciences, and the programme in Scientific Computation. All courses of study lead to the Bachelor of Science degree in three years.

Generally speaking, students in the Pure Mathematics programme are interested mainly in the mathematical content of the subject matter, while students of Mathematical Sciences are more interested in the scientific content of the subject. The Mathematical Sciences programme is usually interdisciplinary study undertaken in conjunction with another department of the University. The Scientific Computation programme is also interdisciplinary and emphasises the study of large scale computational algorithms (that are reliable, accurate and economic) to solve complex problems in science and technology. In both the design of interdisciplinary undergraduate programmes and in research, the Department of Mathematics collaborates closely with many departments in the University, based on the interests of students and academic staff.

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Pure Mathematics and Physics) plus one AL/AS subject. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and at least one other Advanced Level subject.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Degree Structure

Rigorous course structures have been designed for the programme in Pure Mathematics, Scientific Computation and various options in Mathematical Sciences.

Students in Pure Mathematics programme are required to take one year sequence each of Analysis, Algebra and Geometry.

Students in Scientific Computation programme are required to take the Scientific Computation project, totaling 9 credits, in the third year of study, besides other courses related to scientific computation.

Three options (physical science, computer science, and business and management) have been designed for the Mathematical Sciences programme. In each option, specific areas of concentration have been designed as follows:

i) Physical Science Option
   Physics; Applied Mechanics

ii) Computer Science Option
    Artificial Intelligence; Computer Systems; Data & Knowledge Base Management

iii) Business and Management Option
    Accounting; Business Information System; Economics; Finance; Management Operations; Organization & Management; Marketing

Students are strongly encouraged to take up to 9 or 10 courses in each area of concentration in order to fulfil the option requirements.
The Department of Physics

Degrees offered: BSc in Physics
BSc in Applied Physics

Physics is the science that deals at the most fundamental level with matter and energy, their interactions, and their transformation. Thus, it provides the foundation for many other sciences and for engineering in which the scientific principles and laws are applied to the development of practical problems and devices.

Man cannot live without seeking to describe and explain the universe.
— Sir Isaiah Berlin

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Physics and Pure Mathematics) plus one AL/AS subject. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Physics, Pure Mathematics and one other subject chosen from Applied Mathematics, Chemistry or Biology.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Degree Structure

Two three-year Bachelor of Science degree programmes are offered. The BSc programme in Physics is intended for students who plan to become teachers in secondary schools or to pursue further studies in Physics and related subjects. The BSc programme in Applied Physics, with options in Computational Physics, Laser and Optical Physics, and Materials Physics, is intended for students interested in the more applied areas of Physics. Upon graduation, they could enter gainful employment in the government and private sectors or pursue postgraduate studies in Physics and related fields.

The first-year courses are common to both degree programmes. Many courses are also common in the second year.

Certain mathematics and computer science subjects are highly recommended for all students. These include: ordinary differential equations, partial differential equations, linear algebra and matrix theory, complex variables and modern algebra, data structure, and numerical methods for digital computation.
V. THE SCHOOL OF ENGINEERING

Degree offered: Bachelor of Engineering (BEng) with Honours

The School of Engineering is the largest of the four Schools. When fully established, it will enrol 40% of the University’s undergraduates and approximately 35% of the postgraduates. The School comprises six Departments: Chemical Engineering, Civil and Structural Engineering, Computer Science, Electrical and Electronic Engineering, Industrial Engineering, and Mechanical Engineering. In addition, starting with the 1994-95 academic year, the School will offer a degree programme in Computer Engineering managed jointly by the Computer Science and Electrical and Electronic Engineering departments.

All Departments offer first-degree programmes leading to the BEng degree, and postgraduate studies leading to the master’s and doctoral degrees. Undergraduate teaching in the School of Engineering is based on fundamentals in science and mathematics with strong emphasis on laboratory skills and design technique. In addition, most undergraduate students are required to attend industrial training in an approved training centre. Practical hands-on experience gained from industrial training in an industrial-like environment is necessary for professional engineering certification. Instruction and research in all disciplines is supported by the University’s state-of-the-art laboratories, computing facilities and the Library as well as the central facilities including the Electronic Support Shop, Instrumentation Pool, Machine Shop, Glass Blowing Shop, CAD/CAM Laboratories, Microelectronics Fabrication Centre, and Materials Characterisation and Preparation Centre.

In keeping with the University’s general philosophy of providing professional training with a generalist outlook, engineering undergraduates take no more than two-thirds of their credits within the School of Engineering. All students are required to take at least 12 credits in the School of Humanities and Social Science, 6 credits in the School of Science, and 6 credits in the School of Business and Management. The remaining credits are spread over courses offered by departments other than the student’s major department.

Selection Criteria

Selection for admission to the University and the School of Engineering is not based solely on the results of a single examination. Applicants are evaluated on a variety of characteristics. In addition to HKCEE and HKALE results, the University relies on recommendations and reports from school principals or academic referees. Applicants’ progress and breadth of subjects taken throughout secondary school, and participation in extra-curricular activities is also considered.

For applicants who have not participated in Hong Kong public examinations, other equivalent examinations and/or academic qualifications are considered.

Interviews and Tests

Applicants may be requested to attend personal interviews and/or take additional tests to be administered by the University. Interviews are designed for the purpose of providing further assessment information on the applicant’s motivation, aptitude and overall suitability for the chosen field of study.
The Department of Chemical Engineering

Degree offered: BEng in Chemical Engineering

Chemical engineering is a discipline in which the principles of mathematics, physical and natural sciences are used to solve problems in chemical systems. Chemical engineers design, develop, and optimise processes or plants, operate them, manage the individuals and capital which make them possible, and do the necessary research for new developments. These skills are critically needed in a broad range of industries, ranging from the traditional areas of petroleum refining and chemical processing to the increasingly important areas of environment, biotechnology, and microelectronics. In order to prepare the students for such a diversity of opportunities, the programme in the Department emphasises strongly the skills to solve problems, to do experimental work, and to communicate technical information effectively. The latest problem-solving tools and experimental apparatus are used to educate students to assume a leadership role in the rapidly changing technological world.

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Chemistry, and one of Physics or Pure Mathematics) and two AS subjects (Biology and one of Applied Mathematics, or Mathematics and Statistics). For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Chemistry and Pure Mathematics, and one other subject chosen from Applied Mathematics, Physics, or Biology.

Candidates applying on the basis of other qualifications should demonstrate acceptable grades in the equivalent subjects in examinations taken.

Degree Structure

The core of the curriculum is a series of required chemical engineering courses which cover the fundamental principles of the discipline. These courses include material and energy balances, thermodynamics, transport processes, reactor design, and process engineering. By taking elective courses, students can build upon this foundation a specialised area of expertise. They can choose from several areas which coincide with the research strengths of the Department in advanced materials, bioengineering, environmental engineering, mathematical modelling, and computer applications. These areas are interdisciplinary by nature, and students may participate in research activities by enrolling in project courses for up to six credits.

Other than the general University requirements, the curriculum also contains science and engineering electives for courses outside of the Department. The specific courses to be taken depend on the student’s interests and are subject to approval by the academic advisor. Some options are: statistics, numerical analysis, statics and dynamics, circuits, biology, biochemistry, and advanced chemistry courses.
The Department of Civil and Structural Engineering

Degree offered: BEng in Civil and Structural Engineering

Civil and structural engineering is a broad-based discipline which provides the knowledge and technical skills to solve problems related to the creation and advancement of civilization. Civil and structural engineers are primarily responsible for the planning, design and construction of what is commonly referred to as the infrastructure of society. This includes the development, utilisation, and control of resources for the benefit of mankind. Participating in the rapid changes in the practice of the profession, the civil and structural engineering programme at HKUST emphasises the teaching of fundamental knowledge and basic technical and human skills to prepare students to meet the challenges in the development of a modern society. In particular, the programme is aimed at familiarising the students with the broad and interdisciplinary nature of the profession, and its role in, and responsibility to, society.

In Hong Kong, as in many other parts of the world, the 1990’s is the decade of environmental awareness and rapid development and modernisation of infrastructure. The PADS Projects to be designed for and constructed in Hong Kong present an enormous challenge to the ingenuity and creativity of civil and structural engineers. The Department, through teaching and research, is committed to motivate and equip students with superior technical competence, managerial skills and leadership quality to fulfil the present and future needs of Hong Kong.

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Pure Mathematics and Physics) and two AS subjects. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and one other subject chosen from Applied Mathematics, Chemistry or Biology.

Degree Structure

Due to the broad-based nature of the discipline as well as the general practice of the profession, all undergraduate students in this programme are required to take at least 20% of their credits in humanities and social sciences as well as business and management, in addition to the comprehensive basic subjects covering the areas of construction engineering, environmental engineering, geotechnical engineering, structural engineering, transportation engineering, and water resources engineering. Upon completion of the above, the student may elect to focus his or her study on one or two areas of applications by taking elective subjects containing comprehensive planning and design elements. Alternatively, students may choose to remain in the general programme with a course of study tailored to their own interests.

Because of the importance of computer use in modern engineering practice, all students in civil and structural engineering must, in the course of the three-year programme, take at least one class in computer analysis and one course in computer-aided design. Each student is required to complete a final-year project and submit a written report under the supervision of an academic adviser.
The Department of Computer Science

Degree offered: BEng in Computer Science

Computer science is the study of the structure, function and applications of computer systems. The Computer Science programmes include such topics as computer architecture, communications and networks, operating systems, programming languages and compilers, database systems, human interface, design and analysis of algorithms, and artificial intelligence.

You cannot teach a man anything; you can only help him to find it within himself.
~ Galileo

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (including Pure Mathematics) and two AS subjects; or three AL subjects including Pure Mathematics. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and at least one other Advanced Level subject.

Candidates applying on the basis of other qualifications should demonstrate acceptable grades in the equivalent subjects in examinations taken.

Degree Structure

All Engineering undergraduates are required to take a series of courses which provide them with basic engineering theories, concepts, and practices. Classes in the basic sciences and mathematics also form part of the curriculum. Introductions to the theory, architecture, and applications of computers are taught in the second year. In the third year, students may specialise in one of the major concentrations such as software, information science, or computer engineering. Alternatively, students may choose to remain in the general programme with a study plan tailored to their own interests.

A final-year project is required for graduation, under the supervision of an academic adviser.
The true scientist never loses the faculty of amazement. It is the essence of his being.

- Hans Selye

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Pure Mathematics and Physics) and two AS subjects. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and one other subject chosen from Applied Mathematics or Chemistry or Biology.

Candidates applying on the basis of other qualifications should demonstrate acceptable grades in the equivalent subjects in examinations taken.

The Department of Electrical and Electronic Engineering

Degree offered: BEng in Electrical and Electronic Engineering

Electrical and electronic engineers utilise theories of electricity, electromagnetism, circuits and electronics to analyse and design devices or systems that generate or use electricity. In performing their jobs, electrical and electronic engineers today rely not only on physical principles but also on sophisticated engineering tools such as computer-aided design tools and sophisticated signal generation, test and measurement equipment. The programme in the Department emphasises electronics, signal processing, communication and microprocessor systems. The curriculum is designed to equip students with solid skills in fundamental principles and conceptualisation of the subject and to give good exposure to state-of-the-art CAD and CAE tools.

Young's Law: All great discoveries are made by mistake.

- Harold Faber

Degree Structure

The undergraduate programme in Electrical and Electronic Engineering is structured such that the student will complete the Electrical and Electronic Engineering Core Courses as well as basic mathematics, language and humanities and social science requirements during the first two years of study. The Electrical and Electronic Engineering Core Courses equip students with the basics of modern Electrical and Electronic Engineering. EEE Core Courses prepare the students for more advanced and specialised EEE elective courses during the third year of study. The EEE Core Courses together with other Engineering Courses provide students with the tools they need for their senior project. During the third and final year of study, each student is required to do a senior project. The senior project is counted as the equivalent of one six credit course for two semesters. Students should choose an EEE faculty member appropriate to their field of interest to be their project advisor. The project advisor will help the students to define the scope of their project. The students are responsible for carrying their project. The advisors are responsible for providing regular advice. The project advisor will work with the Department to ensure that departmental resources are available for the conduct of project. At the end of the year, the students are responsible for the documentation and presentation of their projects.

In the final year, students may specialise in a major subject area. Possible majors include integrated circuits, telecommunication, solid-state devices, digital signal processing robotic and control. A general programme is also available for those who elect not to specialise in one subject area.
The Department of Industrial Engineering

Degree offered: BEng in Industrial Engineering

Industrial engineering is a broad-based discipline which is built upon a collection of methodological tools brought together for problem-solving in engineering and manufacturing management, with productivity improvement as its overall objective. Unique among the engineering disciplines, industrial engineering is primarily concerned with translating designs into economic products, rather than with the fundamental design of the product themselves.

Modern industrial engineering encompasses a wide spectrum of sub-specialties, from the “people-oriented” human-factor engineering to the “high-tech” sounding computer-integrated manufacturing (CIM). Other examples may be manufacturing strategy, facility and environment engineering, quality assurance, and manufacturing processes. Industrial engineers work in diverse industries and environments under a wide variety of job titles.

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Physics and Pure Mathematics) and two AS subjects (Biology, Chemistry, Design and Technology, Applied Mathematics, Computer Applications, or Mathematics and Statistics). For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and one other subject chosen from Applied Mathematics, Chemistry or Biology.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Degree Structure

The three-year curriculum is designed to provide the student with a broad and balanced knowledge base in the areas of mathematics, humanities, social science, basic engineering, computer application, and business administration. In order that theory and practice can be combined, workshop and industrial training are required. Students are also required to take a number of courses from other engineering departments in addition to the departmental requirements, such as quality control and production and manufacturing systems.

The programme emphasises computer and analytical skills. The concept of concurrent-engineering receives prominent treatment. After the first two years of common curriculum, a student may elect to specialise in computer-integrated manufacturing (CIM), facility and environment engineering, systems engineering, operations research, human factor engineering, or manufacturing strategy. All students are encouraged to take courses offered by the School of Business and Management.
The Department of Mechanical Engineering

Degree offered: BEng in Mechanical Engineering

Mechanical engineering is a broad-based discipline which applies technical skills to solving engineering problems and to creating and operating mechanical devices and systems. The undergraduate programme attempts to imbue students with the broad intellectual tools and skills which are essential for professional practice as well as for continuing study in all engineering specialties. The programme emphasises a sound understanding of fundamental principles and the behaviour of engineering systems. It trains students in experimental, computational, and analytical methods and exposes them to state-of-the-art design and technology. More importantly the programme develops a student's self-confidence, ability of observation, analysis, and decision-making, and habit of perseverance. It also teaches students the importance of continued learning and team work, and the power of a thorough and systematic approach to problem solving.

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects (Physics and Pure Mathematics) and one AS subject (Applied Mathematics, Computer Applications, Mathematics and Statistics, Biology, Chemistry, or Design and Technology). For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in Pure Mathematics, Physics, and one other subject chosen from Applied Mathematics or Chemistry or Biology.

Candidates applying on the basis of other qualifications should demonstrate acceptable grades in the equivalent subjects in examinations taken.

Degree Structure

The three-year programme for Bachelor of Engineering in Mechanical Engineering consists of three stages. The first stage concentrates on the fundamentals of mechanical engineering in solid mechanics, dynamics, fluid mechanics, properties of materials, and design. The second stage consists of integration of engineering sciences with laboratory, design projects, and manufacturing process. The third stage consists of electives focusing on specific professional concentrations which include: design and analysis of mechanical devices and systems, environmental studies, materials engineering, bio-engineering, and mechatronics.

Because of the importance of electronics and computers to all future mechanical systems, all mechanical engineering students are required to take courses in circuits, electronics, and microprocessor architecture.

A general programme is also available for those who elect not to specialise.
The Department of Computer Science and the Department of Electrical and Electronic Engineering

Joint degree offered: BEng in Computer Engineering

The Computer Engineering Programme is jointly administered by the Department of Computer Science and the Department of Electrical and Electronic Engineering. Computer Engineering is concerned with the design, analysis and implementation of computer systems. With the rapid advancement of microprocessor and networking technologies, numerous applications arise which require the use of computers. The design must take into consideration the requirements imposed on the system and the technology available for the implementation, while analysis techniques are useful in verifying if the requirements are met. There is a need worldwide for people with skills in computer hardware and software as well as the related technologies to solve existing and new applications. The Computer Engineering Programme is designed to prepare the students for this challenge.

Admission Requirements

In addition to the general entrance requirements of the University, acceptable grades are required in two AL subjects plus two AS subjects, or three AL subjects. The two AL subjects must be Pure Mathematics and Physics. For those candidates who attempted the Advanced Level Examinations prior to 1994, acceptable grades are required in at least three subjects including Pure Mathematics and Physics. Candidates applying on the basis of other qualifications should demonstrate acceptable grades in the equivalent subjects in examinations taken.

Degree Structure

First-year students take introductory Computer Science and Electronic Engineering courses in subjects such as computer programming, software tools, data structures and algorithms, electronics, circuit theory and semiconductor devices. In addition to the engineering courses, basic mathematics and language courses are taken during the first year. In the second year, required courses in computer organisation, programming languages and compilers, digital circuits and systems, principles of systems software, microprocessors and applications, design and analysis of algorithms provide the students with fundamental knowledge of software and hardware aspects of Computer Engineering. In the final year, students may use technical electives to select approved courses from Computer Science and Electrical and Electronic Engineering to pursue more specialised subjects based on his/her interests. Each student is required to complete a final-year project under the supervision of an academic adviser either from the Department of Computer Science or the Department of Electrical and Electronic Engineering.
VI. THE SCHOOL OF BUSINESS AND MANAGEMENT

Degree offered:
Bachelor of Business Administration (BBA) with Honours
Bachelor of Science (BSc) with Honours

The School of Business and Management comprises six Departments: Accounting, Business Information Systems, Economics, Finance, Management, and Marketing. When fully established, the School will enrol about 35% of the University's undergraduate students and approximately 31% of its postgraduate students.

All Departments offer first-degree bachelor’s programmes as well as postgraduate degrees through to the doctorate.

In keeping with the University’s general philosophy of providing specialised training with a generalist outlook, all undergraduates take no more than two-thirds of their credits in their chosen School. All students are required to take at least 12 credits of their courses in the School of Humanities and Social Science. The remaining credits are spread over courses offered by Departments in other Schools.

All students are registered in one of the Departments although there are no first-degree “majors” in the traditional sense. Rather, every student, building on a strong broad-based foundation, chooses an area of concentration in which particular skills are acquired. Thus, graduates are able to enter the job market while retaining sufficient flexibility and adaptability for future career growth. Initially areas of concentration are being offered individually by the Departments in the School. Multi-departmental concentrations are being planned and are likely to be offered in the future.

Our goal is to engage [our students] in a continuous intellectual dialogue—to help them become competent and innovative professionals...

— HKUST Vice-Chancellor
Chia-Wei Woo

Strong emphasis is placed on the scientific and analytical methods as the fundamental pedagogical approach, supplemented by the use of case studies appropriate to Hong Kong and its region. All programmes take full advantage of the University’s state-of-the-art technological facilities and capabilities in their instruction and research.

International Co-operation

A close partnership has been established between the School of Business and Management and the Anderson Graduate School of Management of the University of California Los Angeles (UCLA). Senior academic administrators and staff from UCLA advise on curricular matters, offer joint executive education programmes, recruit, teach and conduct research. In return, the School provides a dynamic homebase for UCLA in Asia-Pacific. Joint appointments, long term exchanges and collaboration are planned.

In addition to the partnership with UCLA, the School has secured assistance from individual teaching staff at other American and British universities.

The School of Business and Management is thus very international in all its teaching, research, and service functions. It is mandated to become a leading business school in Asia within the University’s first decade of existence.
Selection Criteria

Selection for admission to the University and the School is not based solely on the results of a single examination. While results of the HKALE and HKCEE are important, applicants are judged on a variety of characteristics. Among these are: reports and recommendations from school principals or academic referees, progress and breadth of subjects taken throughout secondary school, and participation in extra-curricular activities. For overseas and other applicants who have not participated in Hong Kong public examinations, other equivalent examinations and/or academic qualifications are considered.

Students from the science stream are particularly suitable for a number of the concentrations offered.

Admission Requirements

In addition to satisfying the General Undergraduate Entrance Requirements of the University (see page 12) candidates applying on the basis of the Hong Kong Advanced Level Examinations should obtain acceptable grades in the equivalent of at least three AL subjects.

Candidates applying on the basis of other qualifications will also be expected to have achieved acceptable grades in examinations taken.

Interviews and Tests

Applicants may be requested to attend personal interviews and/or take additional tests to be administered by the University. Interviews are designed for the purpose of providing further assessment information on the applicant’s motivation, aptitude and overall suitability for the chosen field of study.

Degree Structure

All undergraduate students in the School of Business and Management are required to complete a common core of foundation subjects in the School. These subjects include:

- Financial Accounting
- Managerial Accounting
- Microeconomics
- Business Statistics
- Introduction to Information Systems
- Macroeconomics
- Financial Management
- Organisational Behaviour
- Marketing Management

In addition, students design a programme with the guidance and approval of academic advisers in one of the following areas of concentration:

- Accounting
- Business Information Systems
- Economics
- Finance
- Management
- Marketing
The Department of Accounting

Degree offered: BBA in Accounting

As a basic quantitative skill, accounting is fundamental to all business undertakings and has applications in many areas of business and management. Courses offered by the Department focus on concepts and theories, providing students with a solid basis from which they can adapt to changing techniques and practices when they enter the professional world.

Students registered in the accounting concentration are able to gain exemption from certain professional examinations and are prepared to face professional certification in the shortest possible time after their graduation.

The Department of Business Information Systems

Degree offered: BBA in Business Information Systems

Modern management decision-making depends heavily on the collection and transformation of data into useful information. With the increasing sophistication of the computer as a major management tool, this processing of information has become a rapidly expanding industry, bringing about a growing demand for management-oriented and technically proficient information systems professionals.

Courses offered in this Department aim to fulfill this demand by providing students with the basic conceptual framework and tools of analysis necessary to the design, implementation, and control of business information systems.

The Department of Economics

Degree offered: BBA or BSc in Economics

Economics as a positive science is a body of tentatively accepted generalisations about economic phenomena that can be used to predict the consequences of changes in circumstances.

- Milton Friedman

Knowledge is the only investment of production that is not subject to diminishing returns.

- Frank H. Knight

Economics is a social science that deals with the production and consumption of goods and services and the forces determining prices, the performance of markets, the distribution of wealth, and economic growth. Courses offered by the department provide students with a theoretical and empirical framework to understand economic phenomena such as business cycles, inflation, determinants of investment and growth, and international trade and exchange.

The degree offered is determined by the specific path chosen after the first year of study.

The Department of Finance

Degree offered: BBA in Finance

Courses offered by the Department aim at providing students with a working understanding of the financial decision-making process and insights into how financial markets function.

Students interested in this discipline may wish to focus on micro-finance issues, such as corporate finance and investments, or on macro-finance issues, such as financial markets and the international financial system.

The Department of Management

Degree offered: BBA in Management

The fundamental role of a manager in an organisation is to effectively manage the human resources and the physical resources, and to integrate these resources into an efficient...
system to achieve the goal of the organisation. The BBA in Management provides training in two streams: The management of organisations and the management of operations. Organisation and Management focus on the effective management of individuals and groups in an organisation. This includes issues such as the formulation of goals for the organisation and the strategy to achieve these goals; the establishment of the decision-making processes and the control of the system; the development of the human resources and the organisation, etc. Management of operations stresses the effective management of resources to achieve the goals in a most efficient way for the organisation. This is particularly exciting and challenging, and always vital in today's rapidly changing global market which is the result of the revolution in manufacturing and service technology (e.g. microprocessors) and in management philosophy (Total Quality Management). Areas covered will include the application of scientific methods to management problem solving; operations and technology management; quality management; service and manufacturing applications; forecasting and decision-making using field data, etc.

The Department of Marketing

Degree offered: BBA in Marketing

Marketing is a complex process involving many skills and activities to direct the flow of products and services from producers to consumers. It includes marketing research, which is the process of interpreting conditions in the marketplace and forecasting future trends; the development of competitive strategies to ensure the demand for a product or service; advertising and promoting; pricing; identifying effective ways of selling through agents, wholesalers, and retailers; and distributing the actual product or service.

Courses cover all aspects of marketing and provide students with knowledge of the analytical tools to understand marketing problems and the skills to solve practical problems they will encounter on the job.
The reunification of art and science, without which there cannot be any true culture.

-Walter Gropius

VII. THE SCHOOL OF HUMANITIES AND SOCIAL SCIENCE

Degree offered:
No undergraduate degree is offered in this School.

In addition to the Schools of Science, Engineering, and Business and Management, the University has established a School of Humanities and Social Science. The role of the School is two-fold. First, its course offerings support undergraduate students' main specialisations by illuminating the social, regional and international contexts of science, technology and business enterprise. This is crucial to the education of the region’s future leaders and innovators in commerce, industry, the professions and public services. Secondly, the School offers studies in the Chinese cultural heritage, and in other fields, with the aim of extending students' knowledge and widening their field of vision.

The School of Humanities and Social Science does not offer undergraduate degrees. Both divisions offer postgraduate work, by means of a Joint MA programme in Chinese Studies and the enrolment of research students for MPhil and PhD degrees, and a MA programme in Humanities.

All undergraduate students are required to take at least 12 credits in the School of Humanities and Social Science. This usually means four courses of which at least one must be taken from each of the two Divisions.
VIII. RESEARCH CENTRES, INSTITUTES AND LABORATORIES

The University has established several Research Centres and Institutes to facilitate multidisciplinary and interdisciplinary research and to better apply University research to the social and economic development of Hong Kong.

These specialised research organisations together with disciplinary research in academic departments provide undergraduate and postgraduate students with a wide range of opportunities for participation in exciting programmes and projects that deal with the extension and application of knowledge. Several hundred research projects have been funded and are in operation.

Research Centres and Institutes are listed below:

- Asian Financial Markets Centre
- Biotechnology Research Institute
- CAE/CAD/CAM Centre (Computer Aided Engineering, Design and Manufacturing)
- Economic Development Centre
- Environmental Studies Institute
- Hong Kong Telecom Institute of Information Technology
- Infrastructure System Studies Centre
- Materials Research Centre
- ZhengGe Ru Thin Film Physics Laboratory
- Joyce M. Kuok Laser and Photonics Laboratory
- William Mong Semiconductor Clusters Laboratory
- Sino Software Research Centre

Research Centre - Responsible for the development, coordination and conduct of multidisciplinary and interdisciplinary research.

Technology Transfer Centre - Responsible for the transfer of technology to industry and government and for the commercialisation of products and processes developed in university research.

Some other Research Centres and Institutes currently under development include:

- Computation
- Energy
- Manufacturing
- Microsystems
- Textile and Apparel Technology
- Transportation

Each of these Research Centres, Institutes and Laboratories is managed by a Director who is responsible for programmes, projects, facilities and personnel. Undergraduate students should contact the Director if they wish to become involved in these programme areas.

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"Discovery consists of seeing what everybody has seen and thinking what nobody has thought."

- Albert Szent-Gyorgyi
IX. 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 social sciences. There are seminar rooms for meetings and instruction, areas for group discussion, and 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 and 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 broad range of bibliographic and full-text information as well as to search CD-ROM databases. The University Library is linked via telecommunications to libraries and databases in institutions locally and overseas.

In 1993, the Library occupies four levels with over 8,000 square metres of floor space and 1,000 seats. A fifth floor will open in the Fall of 1994 with another 2,000 square metres

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Human knowledge is personal and responsible, an unending adventure at the edge of uncertainty.

- J. Bronowski

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CENTRALISED AND ACADEMIC SUPPORT SERVICES

Centre of Computing Services and Telecommunications

The Centre of Computing Services and Telecommunications develops and manages the computing and networking infrastructure of the University. It provides computing support to undergraduate and postgraduate teaching, and research applications in science, engineering, business and management, and humanities and social science. The Centre also serves the University's administrative needs by providing an integrated information system to support the day-to-day routines as well as to satisfy the need for information in management decision making.

The HKUST computing environment is highly distributed, and is modelled after the client-server architecture. The cornerstone is an advanced, high-speed FDDI (Fibre Distributed Data Interface) network backbone, which operates at 100 million bits/second, with distributed wiring junctions from which various local area networks emanate. The network covers not only all the campus buildings but also reaches out to staff quarters and student dormitories.

The Centre operates powerful server computers to provide campus-wide network services such as network printing, e-mail and electronic notice board. One important characteristic of the University's computing environment is its Chinese-
English bi-lingual capability. Increasingly, more network services will have this dual support. To support computation intensive research applications, CCST provides solutions in different forms, including the provision of high-end workstations which can function individually or combine cooperatively as a single computational resource.

All microcomputers and powerful scientific workstations are connected to the campus network, providing desktop computing power and serving as windows to a vast array of information and computing resources, such as the library system and various scientific and business packages, on the University’s own network or that of other institutions in Hong Kong, and through Internet, on the networks of educational and research institutions worldwide.

In addition to the central facilities, the Centre also manages a number of “computer barns” in various locations in academic buildings, providing PC, Macintosh and Unix workstation facilities for undergraduate teaching and student use. Each academic department also has one or more computing facility rooms for use by postgraduate students and academic staff.

The Language Centre

The Language Centre offers a wide range of language services to all undergraduate and postgraduate students. Students found to be in need of English language support may be required to undertake supplementary language enhancement courses. They have access to the Language Centre’s pre­sessional and in-course classes. In addition to this supporting role, the Language Centre strives to improve students’ proficiency in Chinese, plans to offer a programme of optional courses in modern world languages, and assists with other language studies on an extra curricular basis.

For the provision of these services, the Language Centre has a number of modern audio-visual and computer-equipped language laboratories suitable for both supervised group practice and individual study, which are also supported through the availability of audio-visual carrels in the Library where a stock of language tapes for student use is maintained. The Language Centre also has a modern, extensively-equipped self-access language learning centre.

The Educational Technology Centre

The University is committed to high standards and up-to-date methods in undergraduate and postgraduate teaching. To this end, the Educational Technology Centre sustains a comprehensive service for all academic staff. It provides and maintains a wide range of audio-visual resources for academic purposes. It assists staff in producing their own teaching and learning packages, including those based on computer technology, and audio-visual teaching aids such as slide presentations, video tapes, and overhead transparencies.

To underpin these technical services, the Educational Technology Centre also organises staff development workshops and seminars for faculty and teaching assistants on educational issues in higher education, including the use of audio-visual materials in teaching and the production of teaching and learning packages.
The Industrial Training Centre

The Industrial Training Centre (ITC) provides practical training to Engineering students and, on an elective basis, to interested students from other schools. The training programme gives students a broad and structured understanding of engineering practice. Moreover, the training also helps students satisfy the training requirements of the Hong Kong Institution of Engineers (HKIE) and the UK's Engineering Council for certification/registration purposes.

An important aspect of this training is the integration of workshop experience with knowledge acquired in classrooms and laboratories. Through the training phase, the student's understanding and appreciation of the knowledge acquired from the academic courses will be enhanced. This integration of workshop training with academic knowledge can be accomplished through curriculum planning and coordination between the departments and the ITC. The workshops are in modular form and each department will work with ITC staff to design and specify combinations of modules that meet the needs of its students. Training periods for students range from 5 to 12 weeks, to cater for the specific requirements of various departments. The introductory phase of training consists of basic engineering practices, safety procedures, and the handling of hand, power and machine tools in a supervised setting. Beyond the introductory phase, training is designed to arouse the interest of the students in engineering practice, to stimulate their imagination, and to help them develop their talents. This can best be accomplished in a simulated industrial-like environment in which students are assigned an integrated design-and-make project requiring an intellectual level that matches their ongoing academic activities. The goal of this integrated approach is to train students to be professional engineers.

The training modules are designed to strike a proper balance between the development of skills and an appreciation of engineering processes.

Industrial training in the initial period of 1992-94 is conducted at the Industrial Centre at the Hong Kong Polytechnic.

The CAD/CAM Laboratory

Computer-aided design (CAD) is becoming a standard tool in many engineering and scientific disciplines, and related software and graphic display systems are used for purposes outside the domain of technology and the hard sciences such as geographical information systems. The translation of CAD into process control and computer-aided manufacturing (CAM) is a major ingredient in the modernisation of industry.

The CAD/CAM Laboratory at the University supports the teaching and research activities of many Departments. The Laboratory occupies approximately 300 square metres, with state-of-the-art equipment and design facilities.

Other Central Support Facilities

In addition to the central academic support services, the University has many other facilities specifically designed to support the various instructional and research activities of the Schools, Departments, and Research Institutes, including the following:

- Electronic Support Shop
- Glass Blowing Shop
- Instrumentation Pool
- Machine Shop
- Materials Characterisation and Preparation Laboratory
- Microelectronics Fabrication Centre
STUDENT SERVICES

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 that are 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. The provision of these services, including career counselling, general counselling, student financial assistance, residential housing services, cultural, sports and physical education activities, and health services, is directed and managed by the Director of Student Affairs.

The University places great emphasis on providing a wide range of facilities that will enhance the quality of life of both resident and non-resident students. Apart from the facilities specifically created in the form of buildings, students also have the opportunity to enjoy the natural amenity of a beautiful site enhanced by landscaping, terraces, and pavilions.

Counselling Service

Professional counsellors are available to offer assistance in many areas of student concern, such as adjustment to a new environment, financial hardship, personal problems, and study-related problems.

Careers Service

The Careers Centre helps students clarify their career plans and options. To assist students in their career decisions, this centre organises seminars and exhibitions, maintains contacts with potential employers, assists students in securing summer and part-time employment, and in general, keeps students informed of employment and career opportunities.
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 instruction in these activities. A large multipurpose sports hall with 1,600 square metres of floor space is available for such sports as badminton, volleyball, basketball, tennis, indoor soccer, table tennis, with other areas set aside for fencing, martial arts, aerobic dance, and other exercises. Outdoor facilities 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 being planned to include a number of squash courts and other exercise facilities.

Health Service

The Student Health Service provides out-patient health and dental care for the students. Health education workshops and seminars will also be organised and presented for the benefit of students and staff alike.

HKUST students will be participants, not just spectators.

~ HKUST Vice-Chancellor
Chia-Wei Woo

Residential Halls

Housing accommodation is planned for a minimum of 30% of full-time students. These are located on campus in five multi-storey residence buildings. Undergraduate rooms are generally shared by two students; postgraduates are housed in single rooms with air-conditioning.

Each floor of the Residential Halls has a lounge area with an adjoining pantry. Other facilities in the complex include common rooms and snack rooms where residents and guests can meet and socialise. A laundry is also provided.

A total of 356 postgraduate and 1,722 undergraduate students can be housed in Residential Halls. Allocation of student housing is organised by the Student Affairs Office.

Please consult the section on "Fees, Other Expenses, and Financial Assistance" (pages 75-76) for details of Residential Hall charges.

Provisions are made for students not residing on campus to actively participate in social and sports activities so as to enhance their sense of belonging to the University community.
The University provides a range of student amenity areas to enable the organisation of extra-curricular activities through which social interaction among students can be promoted and a sense of belonging cultivated. These amenities include workshops and studios, music and television facilities, student common rooms, meeting rooms and games rooms for use by all students.

A student canteen with a seating capacity for 1,800 is available. It is centrally located and a variety of services is provided.

Commercial facilities include a bookshop, banking services, and a convenience store.

The Students' Union and a number of student societies associated with academic disciplines, residential units, the arts, and social interests have been formed.

Physical accommodation is provided to house these student societies. Staff from the Student Affairs Office are available to guide and assist students in the operation of these societies, the formation of new groups and the organisation of activities.

**XI. FEES, OTHER EXPENSES, AND FINANCIAL ASSISTANCE**

Fees quoted in this section are subject to the approval of the University's Finance Committee and may be revised prior to the beginning of the 1994-95 academic year.

1. An application fee of HK$120 is charged for each application for admission made directly to the University. This fee, payable at the time of submission of the application form, is not refundable. For applications made through JUPAS, a fee of HK$320 is charged. The fee will be collected by the JUPAS Office on behalf of the participating institutions.

2. The tuition fee for local students admitted for the academic year 1994-95 is expected to be HK$24,000 per annum. At this stage, the tuition fee for overseas students has not been determined. The fee may be paid at the beginning of the academic year or in equal instalments at the beginning of each semester.

3. In addition, each new student will be required to pay a deposit of HK$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 upon graduation, or refunded if the student leaves the University before graduation.

4. The amount of fees to cover expenses for student activities including those of the Students' Union will be announced later.

5. 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 in completing registration procedures as well as overdue library books, etc. The late charges will be levied in accordance with the rules and regulations set by the respective offices.
6. Residential Halls are expected to operate on a self-supporting basis and charges are based on operating expenses. The Residential Hall charges do not include the cost of meals.

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.

8. The total cost of living and studying at the University is expected to be about $53,000 for two semesters and the winter session from early September to early June, including the items mentioned above. This figure includes the cost of food and drink, text books, stationery, sports equipment and clothing.

Financial Assistance

The sources of financial support for Hong Kong students include the following:

Government Grant and Loan Scheme

Full-time students at publicly funded tertiary institutions who have the right of abode in Hong Kong or have resided or have had their home in Hong Kong continuously for three completed 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 9/F, National Mutual Centre, 151, Gloucester Road, Wanchai, 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 from the Student Affairs Office.

Scholarships and Prizes

The University administers a number of scholarships and prizes on behalf of individual and corporate donors. Most of them are awarded to students, without application, based solely on academic merit and the recommendations of a School or Department. Other scholarships have conditions specified by the donor. Interested students need to apply for them through the Student Affairs Office.
ADDITIONAL INFORMATION

The Academic Year 1994-95

The academic year of the University will run from September 1994 to 30 June 1995 and will include two 15-week semesters and a Winter Session of five weeks.

Semester dates for the year 1994-95 provisionally will be:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>5 September 1994 to 20 December 1994</td>
</tr>
<tr>
<td>Winter Session</td>
<td>3 January 1995 to 11 February 1995</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>13 February 1995 to 6 June 1995</td>
</tr>
</tbody>
</table>

* The dates of the Spring Semester include a mid-semester break from 12 April 1995 to 18 April 1995.

The Winter Session is held between the two semesters for remedial activities, study skills, language improvement, enrichment, and other activities. For most students attendance is not required.

Detailed information about the University will be contained in the University Calendar for 1994-95 which will be published in Summer 1994. Students accepted for admission to the University in September 1994 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, choice of courses, entrance requirements or other related matters are welcome to visit the Admissions, Registration and Records Office from Mondays to Fridays during the following hours:

9am - 12:30pm
2pm - 5pm
and on Saturdays during the following hours:
9am - 12 noon
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