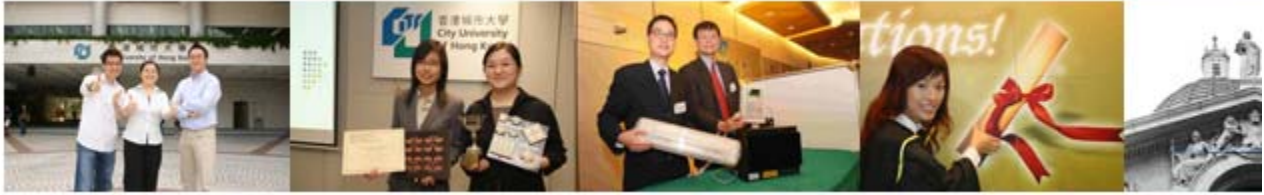


Programmes

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BEng (Hons) in Information Engineering (Law Minor) 資訊工程學榮譽工學士 (副修法學)

Engineers with law background! Highly competitive in the IT field nowadays!



Application period for direct applicants: 8 Dec 06 - 28 Feb 07

Programme code: **BEIELM** Full-time: **3 years**

Programme Leader: **Dr. Lai-Man Po**

Associate Programme Leader: **Dr. Albert Chi-Wan Sung**

Programme email address: **bengie@ee.cityu.edu.hk**

JUPAS Code: **1779**

- Application
- Printed version
- Leaflet

Programme Aim

- Career Prospect

Programme Features

- Curriculum Structure
- Professional Recognition
- Bonus Features

With the BEngIE (Law Minor), students can gain credit direct entry to Year 3 of the Bachelor of Laws and within 2 years.

Entrance Requirements & Admissions

Articulated Programmes

Programme Details

- Programme Requirements
- Course of Major Programme
- Course of Minor Programme
- Recommended Study Plan
- Course Offering Schedule in 2007/08

Award of Bachelor of Laws (LLB)

Block transfer of 60 credits for CityU's Bachelor
Normal Duration: 2 years

Award of BEngIE (Law Minor)
Normal Duration: 3 years

Did you know?

Enquiries

Programme Aim

This is a unique information engineering programme in Hong Kong that integrates technical skills with legal knowledge. We aim to provide you with a solid education in computer networking, system administration and security, network computing and software development; as well as the knowledge of Hong Kong's legal system, contract law and tort law.

We will prepare you for employment in a wide range of economic sectors from information technology, legal, banking, finance, to trading and logistics in Hong Kong and the Asia-Pacific region. Our education will transform you into a well-trained professional engineer who can (i) provide solutions, products and services in different areas of IT application and (ii) apply legal knowledge to professional engineering practice. Graduates will also have a chance to get a Bachelor of Law with Honours (LLB) with two more years of full-time study.

本課程旨在培育具備法學知識的專業資訊工程師。畢業生不但能結合理論、軟件及網絡技術，在資訊科技各應用層面提供方法及服務；亦對香港法律制度、合約法及侵權行為法等有認識。畢業生更可用最快兩年時間修畢法律學榮譽學士課程。本科主要教授電腦及資訊科技知識，重點有數據通訊網絡、資料庫及系統管理、軟件開發與多媒體技術及應用等。副修科包括香港法律制度、合約法及侵權行為法。

Career Prospect

With increasing litigations in information technology services and products, there is an increasing demand for IT professionals with law qualifications. According to the HKSARG's Report on Manpower Projection, IT manpower requirement is projected to rise at an average annual rate of 6.1%, the highest among all economic sectors. The increase is expected to come mainly from the transport, storage and communication sector; the banking and insurance, real estate and business services sector; and the community, social and personal services sector. In the past two years, employers from these sectors have been competing for IT personnel* by offering increasingly attractive pay for graduates. IT graduates with legal knowledge will certainly be even more competitive in the market.

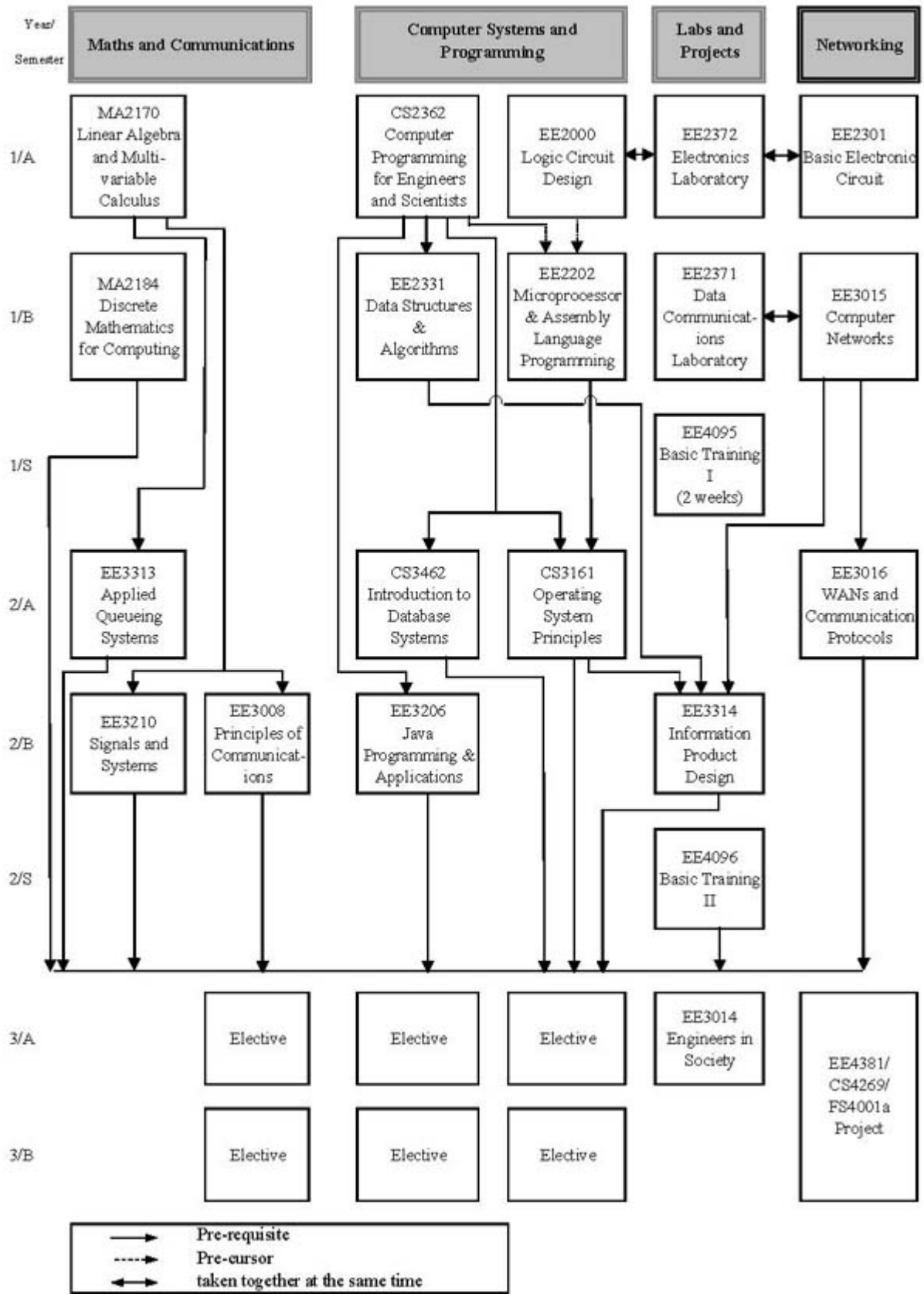
**According to the Report, IT manpower/personnel refers to those engaged in jobs related to IT manpower application systems development, e-business, Internet services, telecommunications and networking, IT systems programming, hardware support, operation support services, IT research and product development, IT education and training.*

Programme Features

The curriculum of the major programme is almost identical with the BEng (Hons) Information Engineering degree programme. The curriculum is well-structured as shown in the figure below. It consists of 87 credit units and focuses on (1) Data Networks, (2) Database and System Administration, (3) Software Development, and (4) Multimedia Computing. The Law programme consists of five courses: Hong Kong Legal System (Year 1), Law of Contract A & B (Year 2), and Law of Tort A & B (Year 3).

Curriculum Structure

**Programme Structure of BEng (Hons) in Information Engineering
(Law Minor)**



Professional Recognition

Close to 97% of the major programme is identical to the parent programme BEng (Hons) Information Engineering. Accreditation is now being sought from the [Hong Kong Institution of Engineers](#).

Bonus Features

Industrial Attachment Scheme

Through tailor-made training programmes carefully worked out between professors and partner companies, students can gain working experience and learn the operation of corporations before graduating. This is a great boost to graduates' career prospect!

Co-operative Education Scheme (CES)

The CES is a 9 to 12-month placement programme for final year science and engineering students. During the placement period, students are released by the partner companies to attend classes. Some students are offered jobs by the training companies immediately after the placement!

Student Exchange

The Department strongly supports [student exchange](#) as a way for students to broaden their horizons and gain life experience. In 2005/06, some 12 students will embark on exchange programmes in prestigious countries including USA, Canada, UK, France, Singapore and China. We have also been able to secure funding from the government to organize [IT Exchange Programmes](#) for students in USA, UK and Australia.

.....[More](#)

Scholarships

Building on our strong link with industry, many scholarships are offered to students every year.

.....[More](#)

Student Achievements

CityU's Electronic Engineering students win almost all top prizes in the annual open project and paper competition organized by the Institution of Electrical Engineers (IEE) and other professional bodies. Join us and you could be a winner too! Click [here](#) for more information.

.....[More](#)

Entrance Requirements and Admissions

Hong Kong Advanced Level Examination Qualifications

Apart from meeting the University's language proficiency requirements (English and Chinese/other languages), students must satisfy the following requirements for the purpose of admission:

1. D or above in AS Use of English or equivalent; AND one of the following
2. E or above in A-level **Applied Mathematics or Pure Mathematics or Physics or Engineering Science** PLUS
E or above in one other A-level subject; or E or above in two AS-level subjects (excluding AS-level Use of English, and Chinese Language and Culture)

OR

E or above in AS **Applied Mathematics or Mathematics and Statistics**; PLUS E or above in one other AS subject and another AS subject.

Direct Applicants

A higher diploma or associate degree in an engineering or a science discipline; or an equivalent qualification

Click [here](#) for articulated associate degree and higher diploma programmes.

Credit Transfer: Credit transfer may be granted upon admission for [articulated associate degree and higher programmes](#). Successful applicants may also apply for credit transfer for particular courses once they have registered. Any credits awarded will contribute to the total required for the award of an honours degree.

Admissions

Application materials are available:

Click [here](#) for online application (Application fee HK\$100)

Click [here](#) for the hard copy application form and application guide (Application fee HK\$200)

At the Distribution Counter located at the University Concourse, Floor 4, Academic Building, CityU (1
Fri: 9:00am – 6:00pm; Sat: 9:00am – 1:00pm)

Articulated Higher Diploma (HD) / Associate Degree (AD) Programmes

The following articulations are applicable to the 2007 HD / AD graduates.

City University of Hong Kong

1. Associate of Science in Computer Studies
2. Associate of Science in Information Technology

Chu Hai College

1. Associate of Science in Computer Science

Hong Kong Institute of Vocational Studies at Chai Wan

1. Higher Diploma in Information Technology for Industry
2. Higher Diploma in Network Applications
3. Higher Diploma in Systems Development and Administration

Hong Kong Institute of Vocational Studies at Kwai Chung

1. Higher Diploma in Commercial Computing Applications
2. Higher Diploma in Enterprise Computing
3. Higher Diploma in Network and Mobile Computing

Hong Kong Institute of Vocational Studies at Kwun Tong

1. Higher Diploma in Entertainment Electronics
2. Higher Diploma in Computer and Information Engineering [2006 Graduates]

Hong Kong Institute of Vocational Studies at Shatin

1. Higher Diploma in Computer and Information Engineering [2006 Graduates]
2. Higher Diploma in Electronic and Communications Engineering [2006 Graduates]
3. Higher Diploma in Electronic Engineering with Business Management
4. Higher Diploma in Web-based Technology for Business
5. Higher Diploma in Internet & Multimedia Engineering

Hong Kong Institute of Vocational Studies at Tsing Yi

1. Higher Diploma in Computer System Administration
2. Higher Diploma in Software Engineering
3. Higher Diploma in Telecommunications and Networking (3-Year) [2006 Graduates]
4. Higher Diploma in Telecommunications and Networking (2-Year)

Hong Kong Institute of Vocational Studies at Tuen Mun

1. Higher Diploma in Telecommunications and Networking (3-Year)

The Hong Kong Polytechnic University

1. Associate Degree in Engineering (Subject to approval)
2. Associate Degree in Information Technology (Subject to approval)

Programme Details

Programme Requirements

Normal duration: 3 years	
	Credit Units
Major Programme :	
Core courses	57*
Technical Elective courses	18**
University Language Requirements	6
Chinese Civilization	6
Law Minor Courses	15***
<i>Total</i>	102

* Including EE4095 & EE4096 Basic Training I & II for Information Engineering, which carry no credit unit.

** Students are required to take a minimum of SIX electives of which no more than ONE level-3 electives should be taken.

*** 9 CUs of the out-of-discipline studies normally required for the BEngE Programme, is not required in the BEngE(LAW-Minor), as the minor courses will automatically fulfill this.

Courses of Major Programme

Core Courses: 57 credit Units

Course Code	Course Title	Credit Units
EE2301	Basic Electronic Circuit	3
EE2372	Electronics Laboratory	1
EE2000	Logic Circuit Design	3
EE2371	Data Communications Lab	1
CS2362	Computer Programming for Engineers and Scientists	3
EE2331	Data Structures and Algorithms	3
EE2202	Microprocessor & Assembly Language Programming	3
MA2170	Linear Algebra and Multi-variable Calculus	3
MA2184	Discrete Mathematics for Computing	3

EE3008	Principles of Communications	3
EE3014	Engineers in Society	2
EE3015	Computer Networks	3
EE3016	WANs and Communication Protocols	3
EE3210	Signals and Systems	3
EE3313	Applied Queueing Systems	3
EE3314	Information Product Design	2
CS3161	Operating System Principles	3
EE3206	Java Programming and Applications	3
CS3462	Introduction to Database Systems	3
EE4381 / CS4269 / FS4001a	Project or Co-operative Education Scheme: Final Year Project Component	6
EE4095 EE4096	Basic Training I for Information Engineering Basic Training II for Information Engineering	0

Elective Courses : 18 Credit Units

Elective courses are divided into five streams and one “Other IE electives” group.

Students are required to take a minimum of SIX technical electives of which no more than ONE level-3 elec course should be taken.

Networks Engineering Stream

Course Code	Course Title	Credit Units
EE3320	Internet Technologies & Protocols	3
EE4011	Performance Evaluation of Communication Networks	3
EE4014	Business Data Communication Networks	3
EE4301	Network and System Administration	3
EE4302	Firewall Network Security	3
EE4316	Mobile Data Networks	3

Computer Systems Stream

Course Code	Course Title	Credit Units
EE3201	Computer Architecture	3
EE3203	Microprocessor System Design	3
EE4201	Parallel Computing	3
CS4273	Distributed System Technologies & Programming I	3
CS4274	Distributed System Technologies & Programming II	3
CS4482	Advanced Database Systems	3

Communications Stream

Course Code	Course Title	Credit Units
EE3101	Communication Engineering	3
EE4015	Digital Signal Processing in Communications	3
EE4212	Information and Coding	3

Multimedia Processing Stream

Course Code	Course Title	Credit Units
EE4205	Multimedia Technologies and Applications	3
EE4206	Digital Image Processing	3
EE4208	Engineering Techniques for Computer Graphics	3
EE4209	Digital Audio Technology	3
CS4367	Computer Games Design	3

Software Stream

Course Code	Course Title	Credit Units
EE4213	Human-Computer Interaction	3
EE4216	Internet Client-Server Computing	3
EE4332	Object-Oriented Intelligent Systems	3
CS3335	Design and Analysis of Algorithm	3
CS3367	Essentials of Software Engineering	3

Other IE Electives

Course Code	Course Title	Credit Units
EE4047	Genetic Algorithms and Their Applications	3
EE4204	Digital System Design with VHDL	3
EE4210	Neural Networks and Fuzzy Systems	3
EE4211	Computer Vision	3
EE4215	Security Technology	3
MA3151	Advanced Engineering Mathematics	3
MA3160	Probability and Stochastic Processes	3

Courses of Minor Programme

Course Code	Course Title	Credit Units
LW2601	HK Legal System	3
LW2602	Law of Contract A	3
LW2602	Law of Contract B	3
LW2603	Law of Tort A	3
LW2603	Law of Tort B	3

Recommended Study Plan

Click [here](#) for the recommended study plan.

Did you know?

1. In 2005, the Department was [ranked No.2 worldwide](#), behind Princeton University (US), in terms of the number of Scientific Citation Index papers published.
2. CityU-EE now boasts 7 Fellows of The Institute of Electrical and Electronics Engineers (FIEEE), a record a single academic department in Hong Kong.
3. In 2006, the Department was awarded the highest amount of research grants from UGC in the electrical & electronic engineering areas among the seven universities in Hong Kong.
4. Five of our professors have won CityU's Teaching Excellence Award. CityU-EE also received highly favor comments from the University Grants Committee in the 2003 Teaching and Learning Quality Process Review.
5. CityU Electronic Engineering students won almost all top prizes in open project and paper competitions organized by the [Institution of Engineering and Technology \(IET\)](#) and the Institute of Electrical and Electronics Engineers (IEEE) over the past few years. Click the [EE student achievements](#) for more information. Join us and you can become a winner too!

Enquiries

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