Bachelor of Engineering (Honours) in Civil Engineering
土木工程（榮譽）工學士

Programme Highlights

- Developed in response to the manpower requirements arisen from Major Infrastructure Projects and the aspirations for degree study of secondary school graduates;
- Provides broad-based learning exposure to civil, structural, geotechnical, environmental and hydraulic engineering; transportation and infrastructure development, building information modeling (BIM) and engineering project management;
- Enriches learning experience through internships; and
- Gains a solid understanding and foundation in the practice and theoretical knowledge of building information modeling through 80 hours of BIM workshops.
Core Courses
- Civil Engineering Construction
- Engineering Geology & Soil Mechanics
- Contract Administration & Measurement
- Design of Structures 1
- Highway Engineering
- Geotechnical & Foundation Engineering
- Design of Structures 2
- Project Management
- Earthwork Engineering
- Sustainability & Infrastructure Design

Career Prospects
Graduates may pursue in the following careers:
- Assistant Engineers
- Graduate Engineers
- Project Coordinators
- Site Agents
- Project Managers
- Civil Engineers
- Structural Engineers
- Geotechnical Engineers

Professional Recognition
This Programme is accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners
(In alphabetical order)
- AECOM Asia Company Limited
- Build King Holdings Limited
- China Geo-Engineering Corporation
- Chun Wo Development Holdings Limited
- David SK Au & Associates Limited
- Gammon Construction Limited
- Meinhardt Consulting Engineers
- Tysan Foundation Hong Kong Limited
- Wo Lee Steel Company Limited
- WSP Hong Kong Limited

Graduate Endorsement
“During the WIL period, my main duty was to provide assistance for reinforced concrete elements design and structural detailed drawings. The internship gave me an opportunity to utilise my knowledge and skills to overcome challenges in workplace. I was also linked up to the industry which allowed me to become work-ready.”

LO Sum Shing
2019 Graduate

Industry Endorsement
“Offering industry-focused curriculum, the CE programme of THEI strikes a balance between theory and practice. It offers work-integrated learning and industrial attachment modules which the genuine needs of the industry. The four-year programme emphasises on work-integrated learning and industrial attachment. Therefore, students have the opportunity to work and gain practical experience in the industry. I strongly believe that graduates from the CE programme will be welcomed by employers.”

Ir Siu-lun CHEUNG
Chief Operating Officer
Build King Construction Limited

Work-integrated Learning
Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Civil Engineering.

Enquiry hotline: 2176 1505   |   Email: thei-fst@vtc.edu.hk   |   Website: https://www.thei.edu.hk
Bachelor of Engineering (Honours) in Environmental Engineering and Management
環境工程及管理（榮譽）工學士

Programme Highlights

- Develops in response to growing demands of environmental engineers for infrastructure development and industrial activities in Hong Kong and Greater Bay Area;
- Equips students with the professional knowledge and analytical skills to pursue careers as practising environmental engineers; and
- Offers multi-disciplinary perspectives on various environmental pollution (air, water, waste and noise) and sustainability issues (sustainable energy, green building and BIM technology).
Core Courses
- Air Pollution & Noise Control
- Water & Wastewater Engineering
- Integrated Solid Waste Management
- Sustainable Energy Systems
- Environmental Risk Analysis
- Environmental Impact Assessment
- Environmental Management of Construction Site
- Design of Environmental & Sustainable Facilities
- Water Resources Engineering
- Construction & Project Management

Career Prospects
Graduates may pursue in the following careers:
- Environmental Engineers
- Environmental Consultants
- Environmental Officers
- Environmental Researchers
- Green Building Consultants
- Sustainability Consultants
- Energy Consultants
- Environmental Policy Advocates

Professional Recognition
This Programme is accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners
(In alphabetical order)
- Acumen Environmental Engineering & Technologies Company Limited
- AECOM Asia Company Limited
- ATAL Engineering Group
- Build King Holdings Limited
- Chun Wo Construction Holdings Company Limited
- Cinotech Consultants Limited
- Gammon Construction Limited
- Hilti (Hong Kong) Limited
- Swire Waste Management Limited
- Yau Lee Holdings Limited

Work-integrated Learning
Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Environmental Engineering and Management.
Bachelor of Engineering (Honours) in Building Services Engineering
屋宇設備工程（榮譽）工學士

Programme Highlights

• Our teaching staff have rich practical industrial experience and close connections with the industry, which help students to build professional and valuable networks;

• The curriculum provides graduates with the essential academic qualification to become a corporate member of the Hong Kong Institution of Engineers (HKIE) as well as a Registered Professional Engineer (RPE) in Hong Kong;

• Our students have 480-hour paid internship opportunity. The teaching staff also closely monitor the students’ progress and provide appropriate supervision for helping them to gain the most from the Work-integrated Learning;

• We are currently the only institution in Hong Kong to arrange comprehensive training (80 hours) of BIM technology;

• Our students will become skillful BIM professionals in meeting the needs of the industry, thereby enhancing their employability; and

• We provide a professional English enrichment course tailored to the building services engineering industry to help our students to improve their English language skills and to enhance their ability in passing the HKIE professional assessment in the future.
Industry Endorsement
“The programme produces high-calibre building services engineers with passion and dedication to tackle challenges for the smart and sustainable development of Hong Kong. The curriculum design of the programme has a strong vocationally-oriented basis. The graduates are well equipped with both essential academic knowledge and practical engineering skills, including the BIM application. Without extra supervision, their self-initiative graduates can work independently and as a team member. In short, the graduates from THEi’s BEng-BSE are work-ready!”

Ir Victor CHEUNG
Past President
The Hong Kong Institution of Engineers (2014/15)
Director
J. Roger Preston Limited

Core Courses
- Heating, Ventilating, Air-Conditioning and Refrigeration (HVACR)
- Fire Services
- Piped Services
- Advanced Electrical Technology
- Industrial Attachment
- Building Information Modelling (BIM) for BSE
- Design for Operation and Maintenance
- Engineering Management
- Safety, Health and Industrial Training
- Final Year Project (BSE Detailed Design)

Career Prospects
Graduates may pursue in the following careers:
- Assistant Project Engineers in Developers
- Graduate Engineers in BSE Consulting Firms
- Assistant Engineers in BSE Contractor Companies
- Facility Management Officers
- Technical Officers in Government
- Assistant Building Services Coordinators in Construction Firms
- Systems Engineers in BSE Supplier Companies
- Researcher Assistants in Education Institutes

Professional Recognition
The programme is provisionally accredited by the Hong Kong Institution of Engineers (HKIE).

Supporting Industrial Partners
(In alphabetical order)
- AECOM Asia Company Limited
- ATAL Engineering Limited
- Buro Happold International (Hong Kong) Limited
- China State Construction Engineering (Hong Kong) Limited
- China State Construction International Holdings Limited
- Electrical and Mechanical Services Department (EMSD)
- FSE Engineering Group Limited
- Gammon Construction Limited
- Hip Hing Construction Company Limited
- Hsin Chong Aster Building Services Limited
- Jones Lang Lasalle Limited
- J. Roger Preston Limited
- Kai Shing Management Services Limited
- Ocean Park Corporation
- REC Engineering Company Limited
- Sanfield (Management) Limited
- Wong & Ouyang (Building Services) Limited
- WSP (Asia) Limited

Work-integrated Learning
Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete 480 hours of Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Building Services Engineering.

Graduate Endorsement
“I had a great time during my four years at THEi! Here I got many opportunities to enrich myself. The teachers helped me to arrange a 3-month internship in a large BSE firm, where my technical knowledge and practical skills were highly utilised and developed. I also had much fun in the Singapore study tour, during which I got to make many new engineering friends. I am so grateful to be part of the big THEi family.”

CHING Man Kit, Marco
2019 Graduate
Bachelor of Engineering (Honours) in Aircraft Engineering
飛機工程（榮譽）工學士

Programme Highlights

- Provides students with a degree qualification in aircraft engineering so as to fulfil high-quality manpower needs of the aircraft engineering and maintenance industry;
- Prepares students to sit for the Hong Kong Civil Aviation Department (HKCAD) HKAR-66 Cat. B1.1 aircraft maintenance licence examination.
Industry Endorsement

“Because of our strategic location in the heart of Asia, Hong Kong is one of the busiest aviation hubs in the world (Hong Kong Airport is the world’s third busiest for international passenger and first for cargo). The Aircraft Engineering degree programme offered by the Faculty of Science and Technology of THEi is vocationally-oriented and features both theoretical and practical trainings which meet the genuine needs of the industry. The programme is recognised by HKCAD as a HKAR66 Cat. B1.1 Basic Licence Training Course. Graduates from this programme will be professionally competent in the industry.”

Captain
CHAN Chi-pui, Michael
MBS, MBB, GMSM, AE
Former Controller, Government Flying Service
The Government of the Hong Kong Special Administration Region

Core Courses
- Aircraft Maintenance Procedures & Techniques
- Human Factor & Air Legislation
- Aerodynamics & Fluid Dynamics
- Aircraft Maintenance Organisation & Management
- Safety & Reliability
- Aircraft Avionics Systems
- Aircraft Structure & Accessory Systems
- Flight Stability & Automatic Control
- Gas Turbine Engine Design

Career Prospects
Graduates may pursue in the following careers:
- Aircraft material/parts controllers
- Cadet pilots
- Planning officers
- Non-destructive test inspectors
- Graduate trainees
- Aircraft design engineers
- Aircraft maintenance assistant engineers
- Component maintenance technicians
- Quality assurance officers
- Technical services engineers
- Management trainees

Professional Recognition
This Programme has been approved by the Hong Kong Civil Aviation Department (HKCAD) as a HKAR66 Cat. B1.1 Basic License Training Course. That means graduates who accumulate around 1,100 hours of aircraft maintenance practical training and pass all the HKAR-66 Cat. B1.1 knowledge examinations and practical assessments are eligible to get the HKAR-147 Certificate of Recognition (CoR). With this CoR, graduates only need 2 years of relevant work experience to apply for the HKAR-66 Cat. B1.1 Aircraft Maintenance Licence.

Supporting Industrial Partners
(In alphabetical order)
- Cathay Pacific Airways Limited
- China Aircraft Services Limited
- Dah Chong Hong - Dragonair Airport GSE Service Limited
- Dragon General Aviation Group Limited
- Government Flying Service
- Guangzhou Civil Aviation College
- Hong Kong Aircraft Engineering Company Limited
- Pan Asia Pacific Aviation Services Limited

Work-integrated Learning
Work-integrated Learning (WIL) modules are directed industry attachments that provide powerful learning experiences by integrating theoretical learning with its application in the workplace. Students are required to complete the relevant Work-integrated Learning to be eligible for the award of Bachelor of Engineering (Honours) in Aircraft Engineering.
Bachelor of Science (Honours) in Health Care

Programme Highlights

- Cultivates a new breed of healthcare professionals in healthcare administration, community healthcare, elderly and residential care services, and nutrition and health;
- Covers health science knowledge and healthcare skills, offer professional streams in “Nutrition and Health” and “Health Administration” in the third and fourth year; and
- Provides internships in healthcare institutions for gaining practical experience.
Industry Endorsement

“Over the years, we continue to see high demand for healthcare professionals in Hong Kong. Quality HealthCare, part of the Bupa Group, provides professional healthcare solutions to help people live longer and better lives. Through our close collaboration with THEi’s Bachelor of Science (Honours) in Health Care programme, we offer young people who have a passion for the industry a platform to acquire professional knowledge and skills as well as on-the-job training in Quality HealthCare. We are happy to be able to provide career opportunities to the graduates, and we hope to see more young professionals joining the healthcare industry to help safeguard Hong Kong people’s health.”

Dr Rachel CHEUNG
People Director
Bupa in Hong Kong

Industry Endorsement

“Healthcare industry is never just about doctors and nurses. It is a broad sector with various professions. These are like puzzles, and the industry has been calling for more healthcare and medical research management professionals to put puzzles together. This is a global opportunity and requires vast knowledge of multidiscipline in the healthcare pipelines. THEi’s Bachelor of Science (Honours) in Health Care programme is a definitely stepping stone for joining our health care and medical industry.”

Dr Wilson WONG, PhD
CEO / Founder
Novus Life Sciences Limited

Core Courses

- Principles of Healthcare Management
- Dietetics & Molecular Nutrition
- Healthcare Organisation & Management
- Primary Health Care & Health Promotion
- Advanced Nutrition
- Occupational Safety & Health Management
- Epidemiology & Public Health Management
- Health Informatics
- Community Healthcare Practice
- Leadership & Strategic Management in Healthcare Services

Career Prospects

Graduates may pursue in the following careers:

- Product Specialists in medical companies
- Healthcare Officers
- Nutritionists
- Medical Centre Administrators
- Health Information Management Officers
- Assistant Operations Officers
- Pharmaceutical Product Specialists
- Healthcare Research Officers

Professional Recognition

- Graduates of Health Administration Stream are eligible to apply for members of Hong Kong Management Association; and Associates of Hong Kong College of Health Services Executives.
- Graduates of Nutrition and Health Stream are eligible to apply for membership of Qualified Nutritionists under Hong Kong Nutrition Association.

Supporting Industrial Partners

(In alphabetical order)

- Celki Medical Company
- Chung Sing Benevolent Society
- CUHK Centre for Nutritional Studies
- GRS Vitality Center
- Hong Kong Hospital Authority
- Kwai Tsing Safe Community and Healthy City Association
- Novus Life Sciences Limited
- Quality HealthCare Medical Services Limited
- St. Paul’s Hospital (Hong Kong)

Work-integrated Learning

Students will be offered up to 480 WIL hours in healthcare related companies.
Bachelor of Science (Honours) in Food Science and Safety
食品科學及安全（榮譽）理學士

Programme Highlights

• Provides students with multidisciplinary skills in food chemistry and analysis, food processing and engineering, nutritional science, microbiology and food safety management.

• Our strong network with food and nutritional industries facilitate student internships, which enable students to acquire valuable practical work experience.

• Graduates are well trained to work for the Food and Environmental Hygiene Department in food policy enforcement, hygiene management and food safety monitoring.

• Graduates are also capable to work in various areas of the food industry such as new food product development, quality assurance and food safety management.
“Thanks to my four years of study at THEi, I built a solid foundation in theoretical knowledge and technical skills. Lecturers always inspired us to think critically, and organised local and overseas food industrial visits for enriching our learning with practical experiences. I joined the summer internship in ALS Technichem (HK) Pty Limited and gained fruitful experiences in conducting food testing. To pursue my further study, I will take the postgraduate degree programme “MSc in Food Safety and Toxicology” in Hong Kong University. THEi has helped me to develop my professional career and build up my confidence and values.”

LEUNG Lok Hin
2019 Graduate
Bachelor of Science (Honours) in Testing and Certification
檢測和認證（榮譽）理學士

Programme Highlights

- Provides an integrated Testing & Certification (T&C) training to students;
- Equips students with the knowledge and practical skills to work in the complex and ever-changing environment of the T&C industry; and
- Emphasises on both scientific knowledge and practical skills in four important areas of T&C – integrated science, analytical science, testing technologies, quality control and management - which would allow the graduates to pursue a professional career in the T&C industry.
Core Courses

- Measurement Uncertainty, Method Validation & Development in Testing
- Testing Standards & Regulations
- Inspection in Practice
- Analytical Instrumentation for Chemical Testing
- Analytical Techniques for Microbiological Testing
- Management Systems for Inspection & Certification
- Medical Microbiology
- Advanced Instrumentation Analysis
- Biochemical & DNA Technologies
- Forensic Analytical Science

Career Prospects

Graduates may pursue in the following careers:

- Chemist
- Product Safety Engineers
- Quality Control Officers
- Quality Assurance Officers
- Petrochemicals Analysts
- Gemologist
- Microbiologist

Professional Recognition

Graduates from this programme are eligible to apply for the Certified Testing Professional (CTP) by the Hong Kong Association for Testing, Inspection and Certification (HKTIC).

Supporting Industrial Partners

(In alphabetical order)

- API Lab Testing Limited
- Castco Testing Centre Limited
- China Dragon Inspection & Certification (H.K.) Limited
- China Inspection Company Limited
- ETS-TestConsult Limited
- Hong Kong Quality Assurance Agency
- Intertek Testing Services HK Limited
- Modern Testing Services (Global) Limited
- SGS Hong Kong Limited
- TUV Rheinland Hong Kong Limited

Work-integrated Learning

Students will be offered up to 480 hours of Work-integrated Learning in T&C related organisations and companies.
Bachelor of Science (Honours) in Chinese Medicinal Pharmacy
中藥藥劑學（榮譽）理學士

Programme Highlights

- Cultivates a new breed of Chinese medicinal pharmacy professionals;
- Emphasises on traditional Chinese medicine theories, scientific knowledge and practical skills in four important areas: traditional Chinese medicine theories and regulations, testing & authentication, QA & QC of pharmaceutical manufactures, and Chinese medicinal pharmacy service. These would allow graduates to pursue a professional career in the Chinese medicinal pharmacy industry;
- Provides practicum in Chinese medicinal pharmacy industry for gaining practical experience; and
- Facilitates students to acquire the values, knowledge, and skills for lifelong learning with the purpose to contribute to the industry’s human capital.

For online application:
VTC Web-based Admissions System
www.vtc.edu.hk/admission
Industry Endorsement

“In response to growing concerns and subsequent manpower demands in Chinese Medicine pharmaceutical industry and service providing area, the curriculum design of degree programme of Chinese Medicinal Pharmacy can equip graduates with balance of theoretical and practical knowledge. Graduates from this full time CMP bachelor degree programme are eligible to apply as the associate member of Hong Kong Chinese Medicine Pharmacists Association, and after obtaining working experience, they are able to take the Licensed Pharmacist Qualification Examination in PRC for further professional qualification.”

Hong Kong Chinese Medicine Pharmacists Association (HKCMPA)

Core Courses

- Processing of Chinese Materia Medica
- Chinese Medicinal Formula
- Pharmacology of Chinese Medicine
- Adverse Drug Reaction and Pharmacovigilance
- Operations and Management of Chinese Medicine Pharmacy
- Macroscopic Authentication in Chinese Materia Medica
- Microscopic Authentication in Chinese Materia Medica
- Pharmaceutical Manufacturing & Operational Management
- Comprehensive Practice on GMP Production
- Drug Safety and Rational Drug Use

Career Prospects

Graduates may pursue in the following careers:

- Chinese Medicine (CM) pharmacists in clinics
- Testing or Authentication Technical Officers
- Medical representatives (CM)
- CM merchandising officers
- CM researchers
- QA or QC Officers in pharmaceutical manufacturers
- proprietary Chinese medicine (pCM) registration officers

Professional Recognition

- Graduates of the Programme may be nominated as responsible persons or deputies for the supervision of the manufacturing process of proprietary Chinese medicines (section 132(1)(b) of Cap. 549) or as responsible persons or deputies for the supervision of the dispensing of Chinese herbal medicines (section 114(2)(b) of Cap. 549) after accumulating six months of relevant practical experience.
- Graduates of the Programme are eligible to apply for membership of the Hong Kong Chinese Medicine Pharmacists Association.

Supporting Industrial Partners

(In alphabetical order)

- Beijing Tong Ren Tang Chinese Medicine Company Limited
- CMA Testing and Certification Laboratories
- Conduct Chinese Medicine Clinic
- Healthy Pharmaceutical Limited
- Health Works (Herbal Tea) Company Limited
- Hong Kong Chinese Medicine Pharmacists Association
- Li Chung Shing Tong (Holdings) Limited
- Ling Nam Medicine Factory (Hong Kong) Limited
- PuraPharm International (Hong Kong) Limited
- The Hong Kong Institute of Biotechnology Limited (HKIB)
- Wai Yuen Tong Medicine Company Limited

Work-integrated Learning

1. Students in the Programme will be attached to workplaces for a minimum of 400 hours to gain practical work experience in a real-life work setting.
2. Students will also be placed in a CM manufacturer for at least two weeks (80 hours) and a CM pharmacy for another two weeks to tackle relevant real-life problems, and equip them with the personal and social management skills.
3. THEi partners with employers to develop the Earn and Learn Scheme which allows students to acquire professional knowledge through studying at THEi and at the same time accumulating work experience while earning an income at workplace.