Construction engineering concerns the planning and management of the construction of structures such as buildings, bridges, roads and tunnels, drainage systems and water supply systems. Construction of such projects requires knowledge of engineering and management principles and business procedures, economics, and human behavior.

Our construction engineering programme aims at giving students the technical skills, intellectual inspiration and appreciation of human factors to meet the challenges facing modern-day construction engineers.
Government-Funded Programme

Associate of Science in
Construction Engineering and Management

What do you need to study?

Main Subject Areas
- Construction Technology
- Engineering Principles in Construction
- Mathematics, Computing and Information Technology
- Management Principles, Law and Economics
- Oral, Written and Graphical Communication Skills

Out-of-Class Activities
- Visits to Construction Sites
- Industrial Training
- Executive mentoring scheme
- Summer internship
- Further Study & Career Talks

Special Features
There will be lots of out-of-class activities to enhance your learning

Career Prospects
Graduates of the programme will have the necessary technical and academic foundation to develop successful careers, in the private and public sectors, in a wide range of building construction, civil engineering and related fields. Graduates are also able to further study at local and overseas universities.
Professional Recognition

- Professional Membership of The Hong Kong Institution of Engineers
- Associate Membership of HKIE
- Associate Membership of HKICM
- Student Membership of CIOB

Further Studies

- Local Bachelor Degree (Full-time) in Engineering at CityU, PolyU, UST, HKU
- Overseas Bachelor Degree (Full-time)

Career Prospects

- Graduate Engineer in Building Construction or Civil Engineering
- Career in Construction + Part-time Top-up Degree in Construction Management or Engineering or Surveying

Associate of Science in Construction Engineering and Management

Routes to Associate / Corporate Membership through Professional Assessment of The Hong Kong Institution of Engineer shall be referred to the website of membership section http://www.hkie.org.hk. The programme is also recognized by the Chartered Institute of Building (CIOB) in which students are accepted as student members of the CIOB.
Feedback from our Graduate

Wong Hoi Pan, Calvin
2008 ASc CEM
2011 BEng (Civil & Environmental Engineering)
2012 MSc (Civil Infrastructural Engineering & Management)
Chartered Civil Engineer

Studying the Associate of Science in Construction Engineering & Management at CityU was crucial to me as it was the starting point of becoming a professional engineer. After graduation, I continued my full time study at the HKUST and acquired a Bachelor of Engineering in Civil & Environmental Engineering in 2011. I then started my career in an engineering consultant firm, Jacobs China Limited, as a Graduate Engineer. In the next year, I also acquired a Master of Science in Civil Infrastructural Engineering & Management at the HKUST via part time study. During my professional training, I gained solid experience in both design and construction of tunneling works including the 2.1km MTR running tunnels passing through Yau Ma Tei, King's Park and Ho Man Tin underneath a congested urban area using the drill & blast method. In 2015, I successfully obtained the chartership in civil engineering which served as one of the milestones of my career development. But no doubt, all experiences and achievements I gained were started from my studying in the Associate of Science degree programme in Construction Engineering & Management at CityU.

Luk Nga Yin, Erin
2016 ASc CEM
2018 BEng (Civil & Structural Engineering)

I graduated from the Associate of Science in Construction Engineering and Management (CEM) at CityU in 2016 and the bachelor degree programme in Civil and Structural Engineering at CityU in 2018. In the two years of studying CEM, I gained a lot of practical learning experiences. Apart from lectures, I joined several trainings, field trips, site visits and study tour organized by the Division. These opportunities did not only enhance my engineering knowledge, but also widen my horizon about the construction industry. Besides, professors are nice and helpful and they are willing to help students in learning and personal development aspects. We had a really fruitful and meaningful university life in these two years. I am so proud to be part of the CEM family!

Harrison Chan
2017 ASc CEM
2019 BEng (Civil Engineering)

Before studying the Associate of Science in Construction Engineering and Management (CEM) at CityU, I was a freshman without clear career aspect nor knowledge related to construction. Fortunately, the CEM programme provided me sufficient resources and opportunities to enhance my learning. For instance, summer internship and training workshops inspired me to understand more about the construction industry. My participation in extra-curricular activities such as Cultural and Language Immersion Scheme (CALIS) to the UK, Guangdong study tour, and Peer-Assisted Learning Scheme (PALS) does not only broaden my horizons, but also sharpen my English communication and skills in leadership.

After graduation, I continued my full-time study at PolyU and acquired a Bachelor of Engineering in Civil Engineering in 2019. I then started my career in an engineering consultant firm, Ove Arup, as a Graduate Engineer and having the opportunities to work on the design with different building projects. I deeply appreciate the guidance and teaching from the professors in CEM which I strongly believed that they have provided a good start for my career in construction and engineering.