DEVELOP YOUR 360° VISION
Interdisciplinary Programs Office (IPO)

Interdisciplinary Programs Office is a significant new development in HKUST’s well-established tradition of innovative teaching and learning. We bring together two or more different fields of study, offering a brand-new type of educational experience characterized by a small multicultural intake, high-powered curricula across different schools and wide-ranging personal and professional enrichment activities.

Interdisciplinary Education

Our interdisciplinary programs are referenced to Hong Kong’s needs and global trends to ensure relevance, with strong input from business and industry to keep training and skills in line with market demand. In addition, these degrees not only create pioneering combinations of knowledge in the high-impact areas of the future, they also lead the way in their approach to university education – and what comes next.

Most importantly, our programs focus not only on academic skills, but also on character-building to foster top achievers to become responsible, contributive and caring leaders in society.

BSc in Individualized Interdisciplinary Major Program (IIM)

Overview

Today, there is a critical need for flexible, incisive next-generation front-runners, who can tackle the increasingly complex issues of our times through the integration of knowledge and original approaches to solution-building and problem-solving.

To help address this need, HKUST’s new Individualized Interdisciplinary Major (IIM) offers a non-traditional, cross-School academic pathway for exceptional Hong Kong and international students with the vision, talents and character to create their own study program.

IIM is currently the only program of its kind in the Greater China Region. It allows students to combine courses from different departments and Schools at HKUST, and even different universities, to develop an interdisciplinary major tailor-made to their intellectual interests. The program initiative will enable the pursuit of a novel interdisciplinary research field or a career in an area of emerging significance, with standards ensured by a small supervisory team.

Curriculum

Students select courses related to their area of interest to form the unique curriculum. Examples of approved majors include: Bionics, Computational Cognitive Science, Environmental Geoscience and Bioenergy Management.

Academic Advising

Advice, guidance and support are provided by a four-person committee set up specifically to oversee an IIM student’s progress. Each committee will include two faculty advisors identified by the student as having relevant expertise, a professional from the student’s chosen area, or a third academic, suggested by the Interdisciplinary Programs Office, and the IIM Program Director. Students are expected to meet regularly with advisors to provide updates on coursework, activities and future plans.
Dual Degree Program in Technology & Management (T&M-DDP)

Overview
In today’s knowledge society, a thorough understanding of technology and management skills opens the way to success. The elite Dual Degree Program in Technology & Management (T&M-DDP) offers high-flying students the exciting opportunity to gain two internationally recognized degrees in five years: a Bachelor of Engineering (BEng) or a Bachelor of Science (BSc), and a Bachelor of Business Administration (BBA). Going beyond traditional boundaries and answering the need for innovative vision in the workplace, T&M-DDP students are trained to analyze issues from technological and business viewpoints and accumulate wide-ranging experience of how the world works, gaining much more than two degrees.

Curriculum
As a fully integrated program, T&M-DDP students study both engineering/ science and business courses each year. The program is challenging but delivers outstanding opportunities for acquiring both broader and deeper knowledge.

BEng Degree
- Chemical Engineering
- Chemical & Biomolecular Engineering
- Civil Engineering
- Computer Science
- Electronic Engineering
- Computer Engineering

BSc Degree
- Industrial Engineering & Engineering Management
- Logistics Management & Engineering
- Mechanical Engineering
- Biotechnology

BBA Degree
- General Business Management
  Courses include:
  - Accounting
  - Finance
  - Operation Management
  - Marketing
  - Organization Behavior, etc.

Enrichment Activities
Technology and Management International Business Plan Competition
A popular international event, co-organized with the Hoefi Technology and Management Program at the University of Illinois at Urbana-Champaign, which draws students from all over the world. Participants from each university work in teams to develop applications and viable business plans for an emerging technology.

Career Prospects

Exchange
A significant chance to study outside Hong Kong via the University’s worldwide partner network. It widens students’ perspectives, develops their valuable multicultural insights and develops greater independence and confidence.

A Day of a T&M-DDP Student
- Wake up, yoga exercise, breakfast
- Lecture class
- Discussion Circle – exclusive to T&M-DDP students
- Lunch with friends
- Laboratory class
- Break, mingling with other students
- Project group meetings at school
- Dinner at home
- Online meetings with teammates on competitions
- Homework assignments, case studies
- Leisure time, get ready to bed

“Dual Degree Program provided me various international exposure. I exchanged to the United Kingdom and met a lot of friends with passion. During my summer internship in Singapore, I found Dual Degree Program equipped me with a solid background to work for technology and energy sector. Studying in both degrees enabled me to deal with the technical terms and analyze in a business perspective.”
BSc in Risk Management & Business Intelligence Program (RMBI)

Overview
In today's global economy, risk management and business intelligence form a vital part of a company's strategic planning and decision-making. Financial crisis, health scare, and other major challenges all indicate the essential need for firms to be able to assess and minimize risk effectively. It is also necessary to analyze and manage the ever-growing volume of business data. HKUST's innovative Risk Management and Business Intelligence program is the first in Hong Kong to integrate these two fields and to answer both market needs in one degree program.

Curriculum
Combining the world-class expertise of the Schools of Business & Management, Engineering, and Science, RMBI provides a curriculum which caters the market needs with an emphasis on quantitative techniques and business knowledge, for high-powered students to learn the frontiers of risk management and business intelligence.

Company-sponsored Capstone Projects in final year
Through in-depth study of an actual business case, students strengthen their ability to apply knowledge from different areas in real-world situations, build up creative and critical thinking, and develop their project management skills. Projects also assist students in establishing future business links.

Enrichment Programs
Symposium on Risk Management and Business Intelligence
The annual symposium brings together academic and industry leaders to discuss trends and issues in risk management and business intelligence and to enable RMBI students to learn at first hand from respected authorities and industry experts in these fields.

Internship
Intern opportunities give invaluable understanding and exposure to work practices in the industry. RMBI students have previously interned at such organizations as Deutsche Bank, Hong Kong Monetary Authority and Goldman Sachs.

Mentorship
A mentor can be a valuable source of advice, an insightful guide to the business environment, a potential contact for the future and a personal friend. A great chance to establish one-on-one link with an executive from the industry.

Training for Professional Qualifications
Full support and training are provided for major professional qualifications including Financial Risk Manager (FRM), Chartered Financial Analyst (CFA), and the Business Intelligence related certificates which further equip students to develop their careers in the industry.

Exchange
Overseas exchange program provides RMBI students with valuable opportunities to expand their vision, enhance interpersonal skills, and develop creativity and cultural awareness in foreign universities. Our students have gained exchange experiences at UCLA, University of Toronto, University of Essex, Technical University of Denmark, Hamburg University of Applied Sciences, Shanghai Jiao Tong University and National University of Singapore.

Career Prospects

A Day of a RMBI Student

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-09:00</td>
<td>Get ready for school and have breakfast on campus</td>
</tr>
<tr>
<td>09:00-10:30</td>
<td>Reading up on lecture notes and preparing for lessons of the day</td>
</tr>
<tr>
<td>10:30-12:00</td>
<td>Tutorial on &quot;Derivative Securities&quot;</td>
</tr>
<tr>
<td>12:00-13:30</td>
<td>Lunch on campus with friends</td>
</tr>
<tr>
<td>13:30-15:00</td>
<td>Lecture on Computer Science course, &quot;Search Engines for Web and Enterprise Data&quot;</td>
</tr>
<tr>
<td>15:00-16:30</td>
<td>Meeting with teammates to discuss business case</td>
</tr>
<tr>
<td>16:30-17:50</td>
<td>Lunch on campus with friends</td>
</tr>
<tr>
<td>18:00-19:00</td>
<td>Dinner on campus</td>
</tr>
<tr>
<td>19:00-20:00</td>
<td>Career talk on risk management in banking industry</td>
</tr>
<tr>
<td>20:00-22:00</td>
<td>Revision and assignments</td>
</tr>
<tr>
<td>22:00-23:00</td>
<td>Chatting with friends in the student hall common room and ready to bed</td>
</tr>
</tbody>
</table>

"RMBI program is my dream choice since my first year of study in HKUST. Its interdisciplinary features ranging from mathematics, computer programming and business management have provided me fruitful learning experiences. The enrichment programs have encouraged me to explore interesting topics, and enhanced my study interest in the major from different perspectives. On the whole, RMBI program has cultivated me to become an outstanding and brilliant person."
BSc in Environmental Management & Technology Program (EVMT)

Overview
With sustainable development now a global concern, there is growing corporate demand for a new type of professional with the relevant knowledge, skills, and enthusiasm to find win-win solutions for both business and the environment. Overcoming the challenges to enable companies to grow profitably as well as to protect the natural environment is essential and HKUST’s pace-setting, interdisciplinary Environmental Management and Technology (EVMT) program, accredited by the Royal Institution of Chartered Surveyors (RICS), offers a unique opportunity to move ahead in this area.

Curriculum
Drawing on HKUST’s expertise in science, engineering, management and the social sciences, the program examines environmental issues from multiple viewpoints to enable students to integrate different perspectives and generate innovative ideas and solutions. Specially designed courses cover subjects such as environmental technology, environmental law, environmental, social and governance (ESG) management and reporting, green business, energy resources and sustainable development while theory is put into practice through working on real-world problems with companies and NGOs. Various enrichment activities further develop students’ capabilities and confidence to work on environmental issues in business and non-commercial settings.

Enrichment Programs

Exchange Program
An integral element of the undergraduate experience is for students to acquire new insights and broaden their perspectives through exchange opportunities. To date, EVMT students have studied at 34 Universities of 14 countries around the world. Such as University of Michigan and University of Pennsylvania in USA, The University of British Columbia in Canada, KTH Royal Institute of Technology in Sweden, and ETH Zurich - Swiss Federal Institute of Technology in Switzerland.

Visits and Field Trips
A great chance to go on-site in Hong Kong, Mainland China and Asia to see environmental developments up close and learn first-hand from the people involved.
- Visited Taiwan to look into the waste management and resources recycling
- Visited South Korea to explore the sustainable city policy and implementation
- Examined the food waste recycling systems at Kowloon Bay and green building operations at Hong Kong Island
- Surveyed the sustainability drive at the Crystal Group, a major Hong Kong garment manufacturer

Internships
EVMT students have previously undertaken internships for AECOM, Crystal Group, CLP Power Hong Kong Limited, Environmental Protection Department, Swire Properties Ltd and WWF – Hong Kong, among others.

Mentoring
Our mentors come from diverse industries and organizations including Agile Property Holdings Limited, AECOM, Airport Authority Hong Kong, ARUP, Civic Exchange, HK Electric, Hysan Development Company Limited, Hong Kong Productivity Council, K Wah Construction Materials, and Sino Group of Hotels.

Career Prospects

A Day of an EVMT Student
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30 – 10:20</td>
<td>Breakfast with EVMT buddies</td>
</tr>
<tr>
<td>10:30 – 11:30</td>
<td>Meeting with Eco-reps to plan and design on-campus green campaign</td>
</tr>
<tr>
<td>12:00 – 13:00</td>
<td>Lecture on Environmental Technology</td>
</tr>
<tr>
<td>13:00 – 14:30</td>
<td>Lunch/Tea with EVMT buddies</td>
</tr>
<tr>
<td>14:30 – 15:30</td>
<td>Lecture on Environmental Science Fundamentals</td>
</tr>
<tr>
<td>15:00 – 16:30</td>
<td>Green (Vegetarian) Lunch/Tea with EVMT buddies</td>
</tr>
<tr>
<td>16:30 – 17:30</td>
<td>Helping out in Upcycling workshop in Grass Hour organized by EVSS</td>
</tr>
<tr>
<td>17:30 – 19:30</td>
<td>Erochat – sharing views on recent environmental issues</td>
</tr>
<tr>
<td>19:30 – 20:30</td>
<td>Dinner with EVMT buddies</td>
</tr>
<tr>
<td>20:40 – 22:00</td>
<td>Reading books, news and studying</td>
</tr>
</tbody>
</table>

"I faced a dilemma when I first enrolled into EVMT. I was interested in environmental issues and excited about the curriculum, but I was uncertain about my future because this industry is still developing in Hong Kong. After one year in EVMT, the uncertainty completely vanished. The extensive curriculum equipped me with essential knowledge and skills to prepare myself for stepping into the society. I was able to enroll in courses ranging from business to social science and engineering, all of which were crucial in developing my interdisciplinary perspective. Numerous eye-opening opportunities outside the classroom including symposia, field trips and internships helped me acquire soft skills and enabled me to learn about the latest trends in the environmental industry. Being a part of EVMT also let me experience the warmth of a family. Here I can meet like-minded friends who are passionate about environmental issues. Not only is the bond among EVMTers strong, our relationship with professors is also close – we can freely express our opinions about the curriculum and ask questions. I would say that choosing EVMT was definitely the best decision I’ve made in my university life."
Li Ho Yi, Derek
Class of 2014, RMBI

*RMBI embodies the interdisciplinary knowledge ranging from business, science and engineering disciplines. You can expect the synergy would be a great boost to one's knowledge and skill sets. For me, the program has offered me a gateway to engage in banking industry and facilitated my preparation for obtaining Financial Risk Manager certification, which is the globally recognized professional designation in financial risk management.*

Alvin So
Class of 2015, RMBI
Now - Analyst
Global Investment Research, Goldman Sachs (Asia) LLC

*RMBI is an exceptional program that integrates different areas of knowledge to excel in the current business environment. I find the skills learnt are especially useful in my internship within the financial industry. Apart from learning, the close relationship built within the program creates a supportive environment that motivates each of us to achieve our goals with lots of joyful moments during the process.*

Park Sunyuu
Class of 2017, EVMT

*I have always attempted to play my part to protect the environment, be it taking the extra flights of stairs, or preventing my mom from "accidentally" chucking my collection of recyclables! Yes, these conscientious habits are good - but EVMT has been a program that has breathed real meaning into them. There were classes that emphasized so powerfully the severity of climate change, resource depletion and excessive waste that I felt as if it was all doom and gloom for us! However, at the same time, other classes would help me understand that great leaders and followers are out there, striving hard for a sustainable future. Thus, through the lenses of different disciplines, EVMT has allowed me to realize that I can do much more beyond developing conscientious habits, in order to be a responsible steward of this beautiful world God has given us.*

Lu Siwan, Swan
Class of 2011, T&M-DDP
Now - Head of Business Development, Global Life and Health, Allianz Group, Germany

*The impact of Dual Degree is long lasting. In my position at a global firm, I am putting everything I learned from the Dual Degree into practice. It has taught me to be socially responsible, work professionally, and be self-critical yet open-minded. Indeed, in a world where boundaries between subjects are ever more blurred, the joint technology and business approach offers more than a competitive advantage, it gives an edge for innovation.*

Sarang Gupta
Class of 2016, T&M-DDP
Now - Analyst (Operations)
Goldman Sachs (Asia) LLC

The elite Dual Degree Program has equipped me with both technical expertise and business skills essential in today's technology centred business world. It has provided me with a platform to participate in several enrichment activities including Corporate Projects, International Business Plan Competitions and Executive Forums. This exposure to industry's practical challenges has transformed me into a fast problem solver with the aptitude to understand and interpret corporate operations and provide solutions to enhance business growth.

Contact
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Risk Management & Business Intelligence Program
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Environmental Management & Technology Program
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Individualized Interdisciplinary Major Program
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facebook.com/IPO.HKUST

Cheung Chun Wai, Alex
Class of 2016, EVMT

*EVMT is an interdisciplinary programme that gives me numerous opportunities, and the freedom to explore and develop my interests and abilities. Project-based curriculum has trained me to be a communicative team player. I always enjoy the creative collaborative brainstorming sessions with my fellow EVMT classmates and students from other fields. All these serve as an ultimate purpose to connect people in improving the environment; yet there is no fixed pathway to achieve it in EVMT. We create our own paths.*
Admissions

IPO adopts two models of undergraduate admission: School-based and Program-based, to provide flexibility and give choices to applicants who are clear about their academic and career interests and opt for Program-based Admission, as well as those who prefer more time to explore their interests after admission and opt for School-based Admission.

Program-based Admission

Prospective students select IPO programs they wish to join at the admission stage. Upon successful admission, they will enroll into the interdisciplinary program starting from the first year of study.

Local mainstream secondary school students should apply via the Joint University Programmes Admissions System (JUPAS). Local students with non-HKBOSE qualifications, as well as non-local students should apply via Direct Entry Admission. Please visit join.ust.hk for information about application procedure, admission requirements and important dates.

Application via Program-based Admission

Students should apply to one of the following Programs:
- Dual Degree Program in Technology & Management (T&M-DDP)
- Risk Management and Business Intelligence Program (RMBI)
- Environmental Management and Technology Program (EVMT)

Successful Admission

Year 1: Dual Degree Program in Technology & Management (T&M-DDP)
Year 2: Risk Management & Business Intelligence Program (RMBI)
Year 3: Environmental Management & Technology Program (EVMT)

Remarks: Individualized Interdisciplinary Major Program will only admit Year 1 students who have entered any one School through School-based Admission.

School-based Admission

Applicants select one of the four Schools (Science, Engineering, Business and Management, Humanities and Social Science) they wish to join at the admission stage. Please visit join.ust.hk for application details.

Upon successful admission and after completion of one year of study at one of the Schools, students will join the Major Selection Exercise to declare a major within her/his School or an interdisciplinary major offered by IPO. For details on Major Selection Exercise, please visit ipo.ust.hk/sba.

Application via School-based Admission

Students should apply to one of the following Schools:
- School of Science
- School of Engineering
- School of Business & Management
- School of Humanities & Social Science

Successful Admission

Year 1: First year study in one of the Schools
Year 2: Dual Degree Program in Technology & Management (T&M-DDP)
Year 3: Risk Management & Business Intelligence Program (RMBI)
Year 4: Environmental Management & Technology Program (EVMT)
Year 5: Individualized Interdisciplinary Major Program (IIM)

Application to enroll in IPO majors